

# Royal Ontario Museum 26th Annual Report

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## July 1975 – June 1976

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### The cover:

Altazimuth Gregorian reflecting telescope by Dollond,  
London, ca. 1780. Primary mirror 7.6 cm. diameter.  
Tube length 45.5 cm.

Navigator's octant, mahogany with brass and ivory  
fitments, by Spencer, Browning and Rust, London,  
ca. 1820. Radius 28.0 cm.

Photograph by W.B. Robertson, Photography  
Department, ROM.

# Report of the Board of Trustees of the Royal Ontario Museum

To Her Honour, the Lieutenant Governor-in-Council:

The fiscal year of the Royal Ontario Museum that ended on June 30, 1976, has been one of many accomplishments, of constant interest, and of heavy demands, as will be seen from the remainder of this report and from the report of our Director, Dr. James E. Cruise.

As a provincially sponsored institution, the Royal Ontario Museum is responsive to the Province of Ontario in conserving its very wide range of artifacts and providing a broad range of programmes for the people of this Province. In addition, much of the basic research for which the Museum is internationally respected is sponsored in part by the Canada Council and the National Research Council.

The Province provides the greater part of our operating expenses, for which we are most grateful. As in the past, the Museum has continuing associations with the Ministries of Education, Natural Resources, Colleges and Universities, and others. We have found that during this first full year of the Museum's new responsibility to the Province through the Ministry of Culture and Recreation (The Honourable Robert Welch, Minister), our reciprocal lines of communication continue to work well and to improve to the common benefit of all. We also welcome our new Deputy Minister, Robert D. Johnston, who has taken over his demanding post from Malcolm Rowan. We thank them both and all their staff for their help and advice.

In the spring of 1975, the Board of Trustees commissioned a study of the Museum's salary structure. With the assistance of an outside management consultant firm, a committee of staff members conducted a study to develop a classification plan and salary structure that would provide equitable rates of pay for some 75 administrative positions covering approximately 225 employees, as well as appropriate policies for administering salaries under such a plan. These studies, completed early in October 1975, showed that salary levels within the Museum were in general somewhat below community and industry levels. It was the Board's decision that the recommendations of this study be implemented throughout the Museum as quickly as possible to bring the administrative positions into a common salary scale and to provide a framework in which salaries could be administered in a more systematic and equitable manner. The new structure provides a set of salary administration policies that make it possible to provide tangible recognition of differences in responsibilities between individual positions. At the same time, many of the internal inequities that existed previously have been eliminated.

In December 1975, the Board of Trustees reluctantly decided that in the absence of any reasonable assurances of sources of funds from the Province for the Museum's proposed expansion, planning for expansion

should be suspended. Mr. David H. Scott, the Project Director, was instructed to prepare an Interim Report of the progress achieved to date. This report was presented to the Board of Trustees and to Museum staff in March of 1976. The key characteristics of the ROM planning process since 1974 have been the definition of the role of the ROM into the 21st century, and for this purpose there has been comprehensive and wide participation from the Museum staff and its Board and members and from the public at large. The Board of Trustees was pleased with the Interim Report, which, in summary, indicated that nearly all requirements and concerns that had been brought forward by members of the Board, by the ROM staff and members, by the public generally (in reply to a public opinion survey of views from individuals and public bodies), by citizens' planning groups, and by the Government of Ontario, could be accommodated by additional construction on the property owned by the Museum, i.e., the present site. (We are now ready to proceed with detailed planning for the structure itself, and we understand that the Provincial Government is about to reaffirm its commitment to the level of capital support originally promised in 1970, and also to provide a substantial contribution from Wintario funds, contingent on fund-raising from other sources. Accordingly we expect that active planning will be resumed shortly.)

The Museum greatly appreciates the extensive support for its programmes from the many corporations, foundations, and individuals who make periodic grants and donations. It is probable that in the future we shall have to look to the generosity of donors on a more systematic basis, both for capital expansion and for the continued operation of the Museum.

With the introduction of the provincial budget in April 1976, the Board realized that our Provincial Government had accepted many of the recommendations of the Special Programme Review Committee with respect to Culture and Recreation. (The Special Programme Review Committee was appointed in June 1975 to inquire into ways and means of restraining the costs of government through an examination of issues such as the continued usefulness of programmes, alternative lower-cost means of accomplishing objectives, and the problem of increased public demand for services in an inflationary period.) Unfortunately for the Museum, the Special Programme Review Committee's recommendation that our operating grant and those of other cultural agencies be restricted to a 5% increase was accepted by the Province.

As approximately 80% of the Museum's operating expenses are made up of salaries, the 5% increase in our operating grant was of course totally inadequate to cover the rather moderate increase in salaries of approximately 8% granted to our staff. There was also a major increase in the cost of heat, water, and electricity, which the Museum purchases from the University of



Toronto. Accordingly we had to make a major review of our operating policies, which resulted in a reduction of personnel and programmes, and we shall have to consider further changes in our operations during the forthcoming year to offset as far as possible the estimated budget operating deficiency of approximately \$325,000.

The Government has announced the re-appointment of Mr. Peter G. White of London, Mr. Reg Wheeler of Hamilton, and Mr. H.D. Guthrie of Toronto as members of the Board. The Government has also announced the appointment of two new members, Mr. J.A. Whitmore of Uxbridge and Mr. J.C. Barrow of Toronto, to replace two retiring members of the Board, Mr. Warren S.R. Seyffert of Toronto and Mr. Walter J. Reeves of Burlington. We shall miss Warren Seyffert and Walter Reeves, who have contributed so much during their term on the Board. In addition, Mrs. Marnie Paikin of Hamilton has replaced Mr. Malim Harding as Chairman of the Governing Council of the University of Toronto and an ex-officio member of the ROM Board. Mrs. Ernest Redelmeier of Richmond Hill was re-elected by acclamation by the members of the Museum to be a member of the Board for a further three-year term.

During the year, the Museum has been host to a number of exciting exhibitions. "Animals in Art", a magnificent collection of paintings and sculpture from around the world, showed the result of many renowned artists' impressions of the impact of nature on the eye of the beholder. Among the artists represented were two of the ROM's own outstanding animal painters. At the year's end, the exhibition "Steuben Glass" was about to give us an awe-inspiring impression of relatively modern examples of the forms to which man can convert a material familiar to all.

Our Outreach Programme continues to expand. At the new Windsor Art Gallery, the ROM provided technical assistance and some funding in setting up one gallery (known as the Royal Ontario Museum Gallery). We also provided a collection of early Canadian furniture to be shown initially at Windsor and subsequently to serve as a travelling exhibition in some northern areas in the Province. The ROM will continue to make exhibitions available to the Windsor Art Gallery and other provincial institutions as funds permit, and we must and will improve our efforts in this regard.

The Board notes with much satisfaction the work of Dr. James E. Cruise as Director and Chief Executive Officer of the Museum. The first year of any appointment is always difficult. Dr. Cruise has shown an unfailing sense of humour and appreciation of all the many aspects of the Museum's activities. The Board would also express its appreciation to the members of the permanent staff, to the Members' Committee under its chairman Mrs. Barbara Robertson, to the many Museum volunteers, to our Research Associates, and to the several thousand members of the Museum. Their

work will be made particularly difficult as the planning for expansion moves ahead. However, I am sure that the irrepressible spirit of the ROM in getting things done in the best way possible will prevail while our new quarters are being made ready for us.

G.D. Wotherspoon  
Chairman  
Board of Trustees  
June 30, 1976

# Director's Report

It was with a sense of both humility and exhilaration that I joined the staff of the Royal Ontario Museum on July 1, 1975. I was charged by the Board of Trustees to effect an internal reorganization of the Museum and, it was hoped, to see the institution through the painful process of expansion and renovation.

If the longed-for expansion does indeed take place during my occupancy of the Director's office, I shall be the first to admit that such physical developments represent the culmination of the efforts of an untold number of other persons during the past twenty-five years — dedicated Board members and other friends, as well as members of the staff.

Changes of all kinds lead to fear and uncertainty, and 1975-76 has been a period of such change. When I first came to the Museum, a joint Board / Staff Report Review Committee was considering a large number of verbal and written submissions concerning Mr. D.H. Scott's report *Guidelines for Planning*, issued in April 1975. After lengthy and very searching deliberations, this Report Review Committee, under the co-chairmanship of Mr. H.D. Guthrie, Q.C. and Mrs. D.S. Rickerd, produced a *Statement of Intent* outlining a wide range of key policies which are to govern the future development of the ROM. This *Statement of Intent* was adopted by the Board of Trustees in September 1975.

It has long been recognized that the Museum was in dire need of a more logical management system and of a mechanism for providing experience in administration for those staff members with an interest in, and aptitude for, the administrative processes. On November 19, 1975, the Board approved a new basic organization chart for the ROM which created four major "streams" of responsibility: Curatorial, Conservation & Registration, Education & Communication, and Administration & Facilities. This new organization chart, along with explanatory notes, was distributed to staff at a general meeting on December 18, 1975.

Dr. W.B. Scott had served the Museum with dedication and effectiveness for a number of years as Associate Director (Curatorial), but asked to be relieved of these duties as of December 31, 1975. A search committee held a number of meetings during the early fall of 1975, and Mrs. Barbara Stephen of the Far Eastern Department was appointed the Museum's ADC as of January 1, 1976. Dr. T. Cuyler Young, Jr., accepted our invitation to serve as the Coordinator of the Art & Archaeology departments, and Dr. Alan R. Emery as the Science Coordinator. Nation-wide searches led to the appointment in May of Mr. Joseph R. Di Profio as the Assistant Director responsible for Education & Communication, and in June of Mr. C. Gordon G. Bristowe as the Assistant Director for Administration & Facilities.

Since the appointment of these excellent senior staff people, the Director's workload has already been significantly lightened, and a new sense of direction and efficiency is emerging. The Director's Advisory Committee now meets each week to consider problems and evaluate progress. The Committee consists of the people named above and myself, with others co-opted from time to time as the need for special expertise is recognized. The DAC has two agendas, the one listing the key policy matters outlined in the *Statement of Intent*, so that progress in implementing these policies may be regularly monitored, and the other concerned with the current operating issues of the Museum.

The Director's Advisory Committee is functioning effectively and deals regularly with a range of matters deriving from and affecting all four streams of the organization. It is only natural that in a period of tight fiscal constraints the DAC has been devoting much time to attempts to more nearly balance the operating budget. The longer-range goal in this area is the establishment of an equitable and efficient budgeting and resource allocation system for the Museum.

There have been a number of significant accomplishments within the Curatorial stream during the six-month period since the appointment of the ADC and the Coordinators. A Collections Review Committee has been established to make recommendations to the Director and the Collections Committee on the subject of loans, acquisitions, disposals, and other matters relevant to the collections. In addition, the Collections Committee finalized a loan policy for the ROM, and a disposals policy. A Promotions Committee was established to consider recommendations for promotion received from Heads of curatorial departments. In the course of its deliberations it formulated criteria to assist in evaluating such recommendations in the future. Also, a statement on the status of Curatorial Assistants was finalized, dividing the existing rank into two, one position to be designated Curatorial Fellow and the other Curatorial Assistant. Input from Curatorial Assistants themselves and from Heads of curatorial departments was most helpful in achieving this result. The Curatorial Salaries Committee was established and instituted a merit bonus system on a trial basis. A Curatorial Programme Review Committee has been established to review research and field programmes initiated by curatorial departments. Ex-officio members are the ADC and Coordinators, though others will assist as resource persons as need arises. The Library Committee has been charged with making recommendations on the status of the ROM Library as a first step in developing policies to govern acquisition, utilization, and disposal.

In addition to her multitudinous other responsibilities, the ADC has provided me with valuable guidance in assisting the three departments of Stream Two: Conser-



vation, Registration, and the Preparators. Each of these departments has long suffered from intense overcrowding, and the establishment and deliberations of a Space Committee, under the chairmanship of Mr. J.H. Harvey, promise to bring about some essential relief. Reorganization of the Registration Department has established a more effective team for handling the enormous volume of work which comes to them. Already more efficient new forms and procedures related to their operations have been devised, and some are already being used. Loan procedures drafted with their assistance have been distributed to curatorial departments and should greatly facilitate the processing of loans in the future. An Electronic Data Processing Committee has been formed, under the chairmanship of Dr. E.J. Crossman. This committee was asked to look at all aspects of EDP in the Museum, as it relates to certain processes and procedures of the Registration Department, to basic research in systematics, and to the National Inventory Program of the National Museums Corporation. This important committee has begun the work of recommending future policies for the ROM. In order to facilitate the appropriate integration of Art & Archaeology interests, a special task force under the chairmanship of Miss D. Hecken has been established by the larger committee.

Although Mr. Di Profio did not join the staff until May 15, his arrival initiated a greatly increased tempo of activity in the Education & Communication Stream. Mr. John Campsie was designated as the Head of the Publications Department, and Dr. Walter M. Tovell as the Head of the Ontario Museums Support and Advisory Services Department. The Education Department began work which it hopes to be able to expand significantly in the near future — the production of learning resource materials. Energies are being concentrated first on a kit which will complement the “Gold for the Gods” exhibition. This kit, which will contain film-strips and audio-cassettes, as well as print and poster material, will provide students not only with a preview of the Gold exhibition but also with a continuing source of information on the general topic of gold and on the cultures of ancient Peru. The production of this particular kit has involved the cooperation of a number of curatorial departments, and of teachers, artists, and photographers.

The appointment of Mr. C. Gordon G. Bristowe as the Assistant Director for Administration & Facilities became effective just a few weeks before the end of the fiscal year. Plans have been made for the appointment of a Head for the Revenue Services Department, a new unit which, along with Personnel Services, Financial Services, and Support Services, will constitute the four departments in this essential stream.

I would now like to turn to the present status of expan-

sion planning. You will recall that last December the Board reluctantly decided that planning for expansion would have to be suspended until the potential sources and amounts of capital funds had been clarified. This suspension was to be carried out in an orderly fashion, in order to bring the planning process to a natural break point, and to allow speedy resumption. Last March, Mr. Scott presented the Interim Planning Report, which listed the status of all elements of the planning process to date, and which included the architects’ concept for the physical expansion of the ROM. This concept was verbally and graphically presented to the Board and to a general staff meeting, and was very well received.

In April, the book *Communicating with the Museum Visitor — Guidelines for Planning*, which had been under intensive preparation by the Communications Design Team, was printed and distributed to all department heads. This is a document of major significance to the future of the ROM and, indeed, is in such demand that consideration is being given to publishing it for general sale.

Whenever possible during the year I have paid tribute publicly to the contributions of the Museum’s volunteer workers, whether they be members of the Board of Trustees, of the Members’ Committee, or of the Museum Volunteers. Thousands of hours are given by these dedicated individuals, and whether the time is spent in the formulation of policies or in the typing of data cards, the services are ones which the Museum could not afford to buy. The ROM is a far better place because of its volunteers, and I have been gratified by the close cooperation in evidence everywhere amongst Board members, other volunteer workers, and members of the staff.

In my brief review I must not overlook the truly remarkable accomplishments of many of the members of the Museum staff. A glimmer of these will be reflected in the departmental reports which follow. A perusal of these reports will call attention also to the broad range of interests of our 350 staff members. It is this rich mosaic of activity and knowledge that makes the ROM unique amongst the great museums of the world today.

James E. Cruise  
Director  
June 30, 1976



# Departmental Reports

## Stream 1

### Curatorial — Art and Archaeology

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## Office of the Chief Archaeologist

A.D. Tushingham, Chief Archaeologist

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Acknowledgments are usually relegated, almost as an afterthought, to the end of a report. It is only fitting, however, that this year we tender our thanks to the Director and administrative staff of the Museum and to the Museum Board and its Finance Committee for the heroic and imaginative way in which they have managed — even under budgetary pressures — to keep our field research projects not only active but in reasonably good health.

### Field Projects — Canada

Without doubt, the most exciting event of the past year was the unequivocal evidence produced by side-scan sonar that our five-year search for the *Hamilton* and *Scourge* had been successful. These two naval schooners capsized in a squall in western Lake Ontario during the War of 1812. They had been located by sophisticated modern search methods, but at a depth (300 feet) that made it impossible at first to be sure that we had really found what we were seeking. The amazing clarity of the sonar image not only removed all doubt but also indicated that the vessels were in almost pristine condition. Since the day in November when a closed-circuit television camera produced photographs of the hulls themselves, Dr. D.A. Nelson, the director of the project, and Dr. Peter Sly, his scientific collaborator from the Canada Centre for Inland Waters, have been able to move on to the next stage: the conservation, study, and possible raising of one or both of the vessels. Extensive security measures will guarantee the safety of these historic treasures until we can work out the complex programme of research on the bottom of the lake and on the hulls of the wrecks.

Dr. Walter Kenyon spent much time during the past year in the preparation of the special exhibition "Tokens of Possession" (and a book of the same title) to mark the 400th anniversary of Martin Frobisher's first voyage of exploration to the Arctic. Dr. Kenyon's work in the archaeology of the Arctic continues, both in the study and in visits to Baffin Island, James Bay, and other points north. He also supervised the East Sugar Island excavation project, directed by Dr. Richard Johnson of Trent University, and advised William Finlayson, director of the Crawford Lake expedition.

Dr. Peter Storck's chief preoccupation during the past year was the installation and opening of the new Ontario Prehistory Gallery. With Dr. Kenyon's collaboration, he has documented about 10,000 years of man's history in this province. His treatment clearly illustrates the distinctive elements of each cultural period and the main lines of development. At the same time, Dr. Storck has been carrying forward his long-term effort to discover and record the traces of early man's presence

in this part of Canada. His work produces more and more camp sites of the period and some of these have been sources of valuable tangible evidence.

The Museum's archaeologists and its education and extension staff collaborated with the Metropolitan Toronto and Region Conservation Authority to provide a credit course in field archaeology for high-school students. Mr. Bryan Snow, who was responsible for the archaeological aspect, is preparing for a second season this summer.

During the summer of 1975 and in May 1976, David Newlands of the Canadiana Department carried out the second and third seasons of excavation at the Huron Pottery site in Egmondville, Ontario. His work on colonial industrial establishments and his direction of the excavation of the guard house site at Old Fort York in Toronto have made him very much aware both of the technical aspects of archaeology in Canada and also of the new interest shown by government and by the public.

### Central and South America

Dr. Kent Day, who as field director at Pampa Grande in northern Peru had been almost continuously in the field for 14 months, returned to Toronto in March 1976 with masses of new data to study and publish. Both in Peru and in Toronto he has been deeply involved in the planning of "Gold for the Gods", the forthcoming exhibition of pre-Inca and Inca works of art from Peru. His availability and his expert knowledge guaranteed that he would be used as an adviser, lecturer, and general factotum in the planning and mounting of the show.

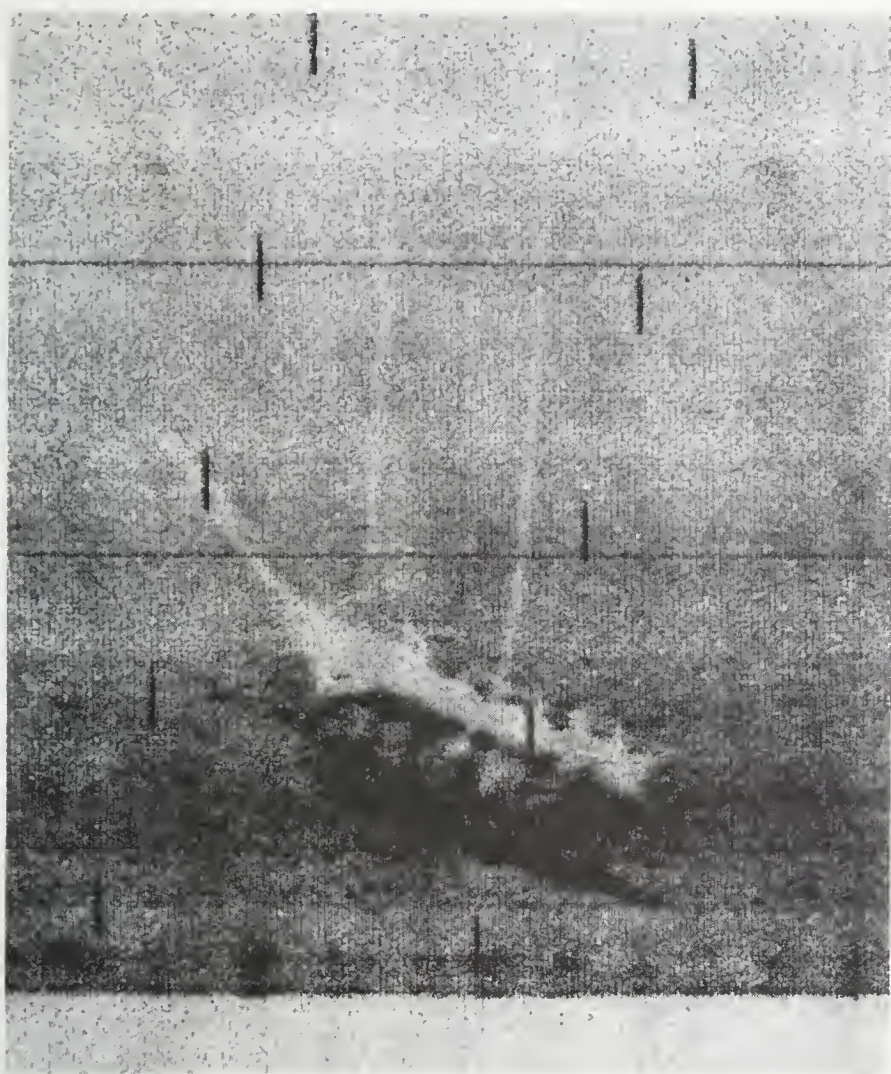
Dr. David Pendergast is proceeding with the excavation of the Maya site of Lamanai in Belize. In the third of his six-month seasons there, he is gradually sketching out the long history of this site. From beneath the rain forest and the accumulated collapse of later reconstructions are appearing the familiar lines of the stepped pyramids so beloved of the Middle American builders. Once more Dr. Pendergast has had the enthusiastic support of Dr. Stanley Loten and his architecture students from Carleton University, while Mr. David Findlay, our gifted graphic artist, spent several months at the site early in the season drawing artifacts and helping with the digging itself.

Our survey project in the territory of Quintana Roo, Yucatan Peninsula, Mexico, under the direction of Dr. Peter Harrison, is still in the publication stage and no decision has yet been made about a commitment to long-range excavation in this area.

### England and the Middle East

The Department of the Environment in England has once more demonstrated its appreciation of the importance of the Fengate site and the quality of the work of our field director, Francis Pryor, by making





A side-scan, supersonic, "photograph" of one of the War of 1812 wrecks, probably the *Hamilton* located by a ROM expedition and now awaiting investigation, and possibly raising. The vessel itself (dark) and its "shadow" (light) show details of the guns on deck, and of masts, bowsprit, and standing rigging.

a substantial (unsolicited) grant to our excavations. This dig, on the outskirts of Peterborough, is in its sixth season and is now adding, to the already documented history of the area in the Neolithic, Bronze, and Iron ages, a new page devoted to the Roman period and illustrated by the remains of a Roman farm. Quite a few Canadian students are receiving excellent training there in the well-established, as well as the experimental, techniques of archaeology.

The University of Toronto - Royal Ontario Museum expedition to Crete is now very close to realization. In the summer of 1975, Dr. Joseph Shaw, the director, successfully negotiated the purchase of the land at Kommos on the southern coast and since that time has received his official permit from the Greek authorities and picked his excavation crew. The first season of excavation should start this summer.

The work on the publication of the Alahan monastery in south central Turkey continues under the direction of Mary Gough, whose late husband, Professor Michael Gough, for many years conducted expeditions there, at first on behalf of the British Institute of Archaeology in Ankara, and since 1970, with the sponsorship of the Pontifical Institute of Mediaeval Studies and the Royal Ontario Museum. Work also proceeds on the study of

the Jerusalem materials in preparation for the publication of the first volume of the joint British School of Archaeology in Jerusalem - Royal Ontario Museum excavations at that site.

Accounts of our archaeological activities in Egypt and Iran are given in the departmental reports of the Egyptian and West Asian departments respectively.

### Other Activities, Honours, and Offices

Dr. Tushingham's most demanding responsibility during the past year has been the chairmanship of the "Gold for the Gods" exhibition of ancient Peruvian material. His visit to Peru in April 1975 had established the willingness of the Mujica Gallo Foundation of Lima to make a loan of some 135 pieces, never before seen outside Peru, to supplement another 250 pieces which would come to Canada after a European tour (Budapest, Vienna, Helsinki). During the summer of 1975 details of this loan were negotiated, and subsequently arrangements for the Canadian tour were made between the ROM and the Winnipeg Art Gallery and the Montreal Museum of Fine Arts. Dr. Tushingham returned to Lima in November to participate in the final arrangements. During the remainder of the winter and spring there have been bi-weekly meetings of the show committee at which all the multifarious on-the-spot arrangements entailed by this major exhibition have been put in train.

While it seems impossible that this exhibition could leave time for other duties, the staff were involved as usual in the committees which are a major part of Museum life, in lecture programmes, and in consultation with the public, with governments, with the media, and with scholars at other institutions.

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## Canadiana Department

Donald Blake Webster, Curator

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The past year has been one of adjustment to steadily increasing demands in the areas of outreach, extension, and special exhibition loans. We have also completed one of the most illuminating pottery excavation projects we have ever undertaken, and have accelerated work on several long-term research projects.

### Exhibitions

Quarterly exhibitions, planned by Mrs. Ignatieff and Mrs. Allodi, were "Down to the Sea" from June 19 to September 14, 1975, and "Cornelius Krieghoff (1815-1872)" from September 20 to December 1. "Wolfe and the Battle for a Continent" was then installed in our South Gallery from December 6 to March 7, followed by "Life in Rural Ontario" from March 10 to June 13. The



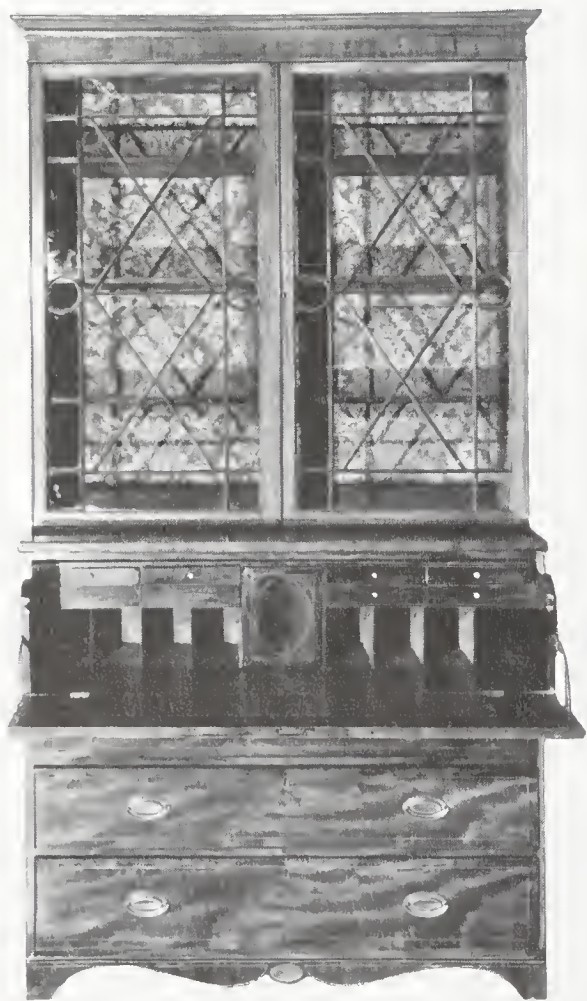
latest exhibition, "100 Years of American Prints, 1760-1860" opened on June 17.

### Teaching and Lectures

Members of the department, in collaboration with the European Department, taught the University of Toronto undergraduate course FAR 426, and the Curator taught graduate course 1445. The latter course, over the years, has provided our library with some 30 specialized research papers, valuable resources for present and future scholars. David Newlands taught a weekly evening course in Near Eastern archaeology at Wilfrid Laurier University.

The staff this year have given over 80 outside evening lectures, mainly in Ontario, to community colleges, historical societies, and other groups. David Newlands also lectured in New York State, and the Curator spoke at a symposium, "Preserving the Canadian Heritage", organized in Ottawa by the Royal Society of Canada, and to the Vancouver Institute. Nancy Willson organized a week-long Ontario Museum Association seminar on wood and furniture. Members of the department also made many television and radio appearances.

Queries by telephone and by mail, requests for the identification of objects and for photographs, and library usage are all at the same level as last year, or are slightly increased.



Secretary-desk of mahogany and pine with maple inlays. Montreal, c. 1800-1810.

### Gifts, Purchases, and Loans

Gifts of objects have totalled 96, from 23 different donors. In addition, grants for use as desired, always welcome, came from Dr. Alexander MacDonald, Mrs. Michael dePencier, Mrs. R.C.S. Blue, and the Macdonald-Stewart Foundation.

Collection purchases totalled 134, including several excellent pieces of English-Canadian furniture, and two superb watercolours, c. 1820, of Niagara Falls by Charles Ramus Forrest. The total spent for new acquisitions, from the Sigmund Samuel Trusts, our Purchase Trust allocation, and grants, particularly that of the Macdonald-Stewart Foundation, came to \$31,452.

Beginning with final assembly of the Windsor Art Gallery loan in August and September, which we estimate required over 300 hours of Canadiana staff time, a total of 25 loans have been assembled, compared to 20 during 1974-75. The number of objects involved, however, is approximately five times that of the previous year.

The library has grown with the addition of 173 books, for the most part new publications, as well as with the important addition of a large run of *Canadian Illustrated News*. Total expenditures amounted to \$4,693.

David Newlands completed excavations at the Egmondville Pottery. Among the finds were more appliqué moulds (some hand-signed), plaster vessel moulds, and intact pieces. This site, with its well-preserved kiln and great range of object recoveries, has provided more technical information on early commercial craft potteries than any other previous excavation.

### Other Activities

A number of special events were held at the Canadiana Building, including two well-attended collectors' open nights, an evening for the Ontario History Teachers' Federation, several other group affairs, and the Members' Committee annual meeting.

Conservation has gradually become more of an in-house matter. We have always carried on routine archaeological restoration within the department. During the past winter Nancy Willson worked one day a week at the Ontario Archives, learning routine rag-paper conservation, while Susan Richardson handled our basic wood and furniture restoration.

Our 15-minute 16mm film of the excavations at Fort Senneville on Montreal Island, with narration and music, was completed in January, and prints are available for distribution.

Several projects are under way. Following publication of her two-volume collection catalogue of Canadian watercolours and drawings, Mary Allodi is working on early prints as indigenous Canadian imprints. Janet Holmes is pursuing her long-term project on the early



Canadian glass industry. David Newlands, whose *An Introduction to Canadian Archaeology* will be published in the fall of 1976, is at work both on excavation reports and on a new book on the technology of early commercial craft potteries. The Curator is pursuing a complex project (for publication in two volumes) on early English-Canadian furniture.

Attendance at the Canadiana Building has been well up, totalling 39,497 from June 1, 1975, to May 31, 1976 — an increase of 5,341 from the same period of 1974-75.

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## Egyptian Department

N.B. Millet, Curator

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The year has been one of steady progress for the Egyptian Department's projects. The most spectacular event of the year was the exhibition of the results of the autopsy of the Egyptian weaver, Nakht, including the mummy itself, in the Museum subway station. If there were any apprehensions about the public's reaction, they were quickly dispelled; there was very little adverse criticism and a great deal of enthusiasm, particularly among the ROM's younger visitors, and complaints were heard only when, after four months under the TTC's roof, Nakht had to be removed to make way for another exhibit. The department is grateful to the Design and Display Department for their assistance in designing a most successful and arresting exhibit.

### Departmental Projects

Work continued on the two main projects of the Egyptian Department. The first of these is the publication of the results of the excavations carried out at Adda in Egyptian Nubia during the years 1962-66, in the course of the Nubian Salvage Programme. N.B. Millet's work this year was largely on the archaeological material and excavation records of the vast cemeteries at that site, which are numbered from One to Eight. Part of this preoccupation with the cemetery areas of Adda was to produce a more accurate series of dates for burials, in order to enable the project's physical anthropologist, Dr. Eugen Strouhal of Prague, to make his studies of the skeletal material more meaningful. The population of Adda during its 1,500 years of existence is assumed on cultural and historical grounds to have remained fairly homogeneous, but rigorous statistical testing is necessary before this can be stated as fact.

The second project is the preparation of the results of A.J. Mills' excavations and survey in Sudanese Nubia from 1962 to 1972 for publication by the Antiquities Service of the Democratic Republic of the Sudan. This is a long-term endeavour and has suffered some inter-

ruption during the year while Mr. Mills has been bringing his other enterprises to completion.

Other departmental projects have proceeded towards their various conclusions with unequal speed. The autopsy of the mummy of Nakht, a 16-year-old weaver of Thebes who died in the 12th century B.C., was carried out in August 1974, but the scientific examination of the remains by doctors of the collaborating institutions (Academy of Medicine, Toronto; University of Toronto Medical School; Palaeopathology Association) continued. The most interesting further discovery, made by Dr. F.D. Pooley of the University of Cardiff's Department of Mineral Exploitation, was the presence of quantities of granite dust in Nakht's lungs. The only explanation that can be offered for this unexpected condition is that Nakht must have served a term of penal servitude, which in his day often involved hard labour in granite quarries or workshops.

Mr. Mills' work on the publication of the Ibrim cemetery is now virtually completed. Mr. Hollett, our technician, is in the course of finishing the drawings and making up the plates. The cemeteries of Qasr Ibrim, in Egyptian Nubia, were excavated by the Egypt Exploration Society in 1960-61, and Mr. Mills was on the staff of the expedition at the time. The tombs date largely from the Meroitic and X-group periods of Nubian history (in this case from about A.D. 250 to 600).

The Ancient Nubian Textile Project suffered a setback because of the illness of Mr. Mark Burnham, and has been suspended for the present.

The first section of the Archaeological Map of the Sudan, compiled by Mr. Mills in collaboration with Mr. Fritz Hinkel of the Academy of Sciences, German Democratic Republic, has been completed and is in the hands of the printers.

### Excavations

The department continued its financial support of two outside excavations, one in Egypt (the Saqqara excavation of the Egypt Exploration Society), the other in the Sudan (the excavation of the ancient capital, Meroe, by the University of Calgary and the University of Khartoum). In addition financial aid was given to the University of Pennsylvania's expedition to Karnak, under Prof. D.B. Redford of the University of Toronto. In connection with the Saqqara excavations, a shipment of objects was received this year as part of the department's share of the finds, and a similar accession of material is expected from the Meroe enterprise. The proposed archaeological survey of a stretch of the Sudanese Nile by the Egyptian Department has been postponed until later in 1976, when it is planned to examine both banks of the Nile between El Khandaq and Fakrinskott, primarily for evidence of Meroitic settlement patterns.



## Art and Archaeology

N.B. Millet continues his work on the interpretation of Meroitic, the ancient language of the first literate culture of black Africa, which had its capital at Meroe, near Shendi.

### Galleries and Exhibitions

Acquisitions of the last few years for which regular gallery space is not yet available were placed on display in the small gallery which we share with the West Asian Department. The exhibit of the mummy autopsy has already been described. An exhibit of Nubian material from Adda was loaned to the Royal Bank, Toronto, and was on view there from August to October. One of the department's prizes from the Saqqara excavation, the greywacke statuette of Bokennefnef, an administrator of the Twenty-Sixth Dynasty, has been placed on display in the fourth Egyptian gallery.

### Other Activities

Both curators hold teaching cross-appointments in the Department of Near Eastern Studies, University of Toronto, each teaching one graduate course and part of an undergraduate course, as well as supervising students. They thus together support the graduate programme in Egyptian archaeology, a portion of their duties which is becoming more demanding than ever as more students enter the programme from Canada and the United States. In November, N.B. Millet attended the annual meeting, held in Baltimore, of the American Research Center in Egypt, Inc., the North American professional organization for Egyptologists. N.B. Millet has been on the Board of Governors for some years and is at present Chairman of its Archaeological and Research Expeditions Committee. He also contributed in March to the Teachers' Symposium on the Ancient Near East held at the University of Toronto, and sponsored jointly by the University's Department of Continuing Studies and the Society for the Study of Egyptian Antiquities.

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## Department of Ethnology

H. Fuchs, Curator-in-Charge

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The Department of Ethnology has continued its varied operations, and in addition has enlarged and consolidated its collections. Services to government, to the public, and to Native people were notably increased. At the same time working conditions in the department, storage facilities, and the documentation of our holdings were considerably upgraded.

### Gifts, Purchases, and Loans

Seventeen donations were accepted by the department, comprising 432 items from North America, New Guinea, Malaysia, Chile, and West and South Africa, as well as

a collection of 103 early 20th-century glass negatives of Paul Kane paintings.

Purchases comprised 207 items. The material was mainly Canadian Indian and included 13 works of contemporary Native painters, such as Francis Kagige, James Simon, Roy Thomas, Del Ashkewe, and Don McLeay. Among other purchases was ethnographic material from Guatemala, Venezuela, and Peru.

Thirty-six loans, comprising 901 items with a value of nearly \$1,500,000, were extended to various institutions, art galleries, libraries, museums, centres, and associations during the year.

The collections were increasingly utilized by universities for research and as an aid in teaching. During the year 17 students from the Department of Visual Arts at York University, the Department of Anthropology at McMaster University, and other universities and museums throughout Canada made extensive use of our resources.

### Bequests, Donations, and Grants

The department gratefully acknowledges bequests, donations, or grants from Miss Violet Shawanda, Miss Hilda Hauert, Mrs. F.M. Windsor, the *Toronto Star*, Mr. Frank Fournier, Mrs. F. Commings, Miss Nati Vidal, Father William Turkington, Miss Sandra Valencia, Dr. S.E. Bruun-Meyer, The United Church of Canada, Mr. and Mrs. A.H. Atkinson, Mr. C.W. Lowther, Dr. E.S. Rogers, and Mr. T.E. Hartley.

### Galleries and the Care of Collections

To increase the teaching value of the new Northwest Coast Gallery, opened last year, the Ethnology Department in cooperation with the Publications Department prepared a 24-page illustrated brochure which is now available to the public.

Our storage area was expanded and improved and an area of 7,540 cu. ft. was made available for the storage of approximately 5,000 artifacts. Ideal humidity control in this dust-proof and light-proof room provides better protection of artifacts. The new shelving space and work table allowed us to consolidate and reorganize the Canadian and North American collections, as well as collections from the New Hebrides, the Solomon Islands, and New Guinea. Approximately 1,500 specimens were catalogued, keeping our catalogues up to date from 1967 onwards.

### Lectures, Teaching, and Museummobile

Mr. Basil Johnston taught an Ojibwa language course, translated documents into Cree and Ojibwa for the provincial government, and delivered lectures on 24 different occasions at centres in the Province of Ontario. At the invitation of the Hon. Douglas Roche (M.P. for Lethbridge, Alberta) he participated in the Conference





The study room in the Ethnology Department. Hard work does not always wear a grim face.

of the World Council of Churches at Couchiching in November.

Dr. E.S. Rogers and Dr. M. Black attended the annual meeting of the American Anthropological Association in San Francisco in December. Dr. Rogers continues to teach at McMaster University. In September Dr. H. Fuchs attended the First International Meeting on Human Ecology in Vienna, in his capacity as Vice-Secretary of the International Congress on Human Ecology and as coordinator of its ethnology section.

During the year the museumobile visited federal schools, reserves, and integrated schools in communities near reserves in eight main areas of Ontario. The total attendance in these remote locations was well over 16,000.

In cooperation with the Museum's Extension Services and Information Services, the department arranged for photographic exhibitions of materials related to the Indians of Ontario at Alderville Ojibwa Band near Cobourg, Ontario, at the Manitou Reserve, Emo, Ontario, and at Anduhyaun, in connection with Caravan 76.

### Field Work, Research, and Publications

Dr. E.S. Rogers and Dr. Mary Black continued their ethno-historical research on the Weagamow Ojibwa. Dr. Rogers authored or co-authored six articles for the forthcoming *Handbook of North American Indians*, to be published by the Smithsonian Institution, Washington, D.C.

Mr. Basil Johnston published seven articles during the

fiscal year. He also finished several manuscripts, including *The Ojibwa Language Course Outline* in which the Indian Affairs Branch Regional Office in Toronto expressed great interest. Mr. Johnston also continued to enlarge our tape collection, thus providing a source for future publications.

Dr. Zdenka Volavkova, assisted by her students, is in the process of completing the detailed scientific cataloguing of our African holdings, comprising over 15,000 specimens.

Mrs. Sonja Koerner, a volunteer working under the supervision of Dr. Fuchs, completed the *Ethnological Bibliography of Venezuela*, now being prepared for publication.

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## European Department

H. Hickl-Szabo, Curator

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Mr. Hickl-Szabo's principal field of research during the year was Central European furniture. He also worked on miniatures with Mr. Kaellgren and on bronzes with Mr. Keeble. Mr. Keeble's other subjects of research were arms and armour, glass, pottery, Baroque terracotta reliefs, stained glass, and costume, while Mr. Kaellgren concentrated on Oriental export silver, drinking vessels, and glass. Mrs. Bacso's research on our collection of knives and forks and on English chairs provided necessary information for cataloguing or re-cataloguing.



Mr. Cselenyi's research centred on the R.S. Williams family, two Romanesque Siculo-Campanian capitals recently acquired, a drawing attributed to Rembrandt, and late Byzantine glass and stone pendants.

### Lectures

All members of the department contributed to a full programme of lectures. Mr. Hickl-Szabo and Mrs. Bacso lectured to Fine Art students at the University of Toronto. Mr. Hickl-Szabo also lectured to teachers and to museology students and Mrs. Bacso taught part of the extension course "Ceramics for the Collector". Mr. Cselenyi lectured to students of the Ontario College of Art and supervised the work of some University of Toronto students. Both Mr. Kaellgren and Mr. Keeble gave lectures on a variety of subjects to a number of groups both inside and outside the Museum. Mr. Kaellgren also gave an evening course on antiques under the auspices of the Toronto Board of Education.

### Gallery Work

In addition to the major new display of Central European furniture in Gallery 9, a number of other displays were arranged. Mrs. Bacso organized a display of 20th-century studio ceramics in the cases in the cafeteria and maintained the rotation of the ceramics, glass, and silver in the English galleries. Mr. Cselenyi displayed part of the collection of autograph letters of famous musicians; he also made an interesting exhibit of an 18th-century *viola da gamba* with photos of all its parts taken during restoration, and reorganized the display of antique writing and printing. Mr. Keeble rearranged the majolica in Gallery 6 and the arms and armour cases.

### Exhibitions and Loans

Members of the department cooperated in two major Museum exhibitions — "Animals in Art" and "Tokens of Possession" — and also in the exhibition "Chairs" in the Art Gallery of Ontario. Loans went to McKenzie House, the Ontario Science Centre, the Caledonia Museum, the Prince Edward County Museum, Fort York, the Joseph Brant Museum in Burlington, the Port Credit Library, the Windsor Art Gallery, and the National Science Museum in Ottawa.

### Travel and Other Activities

Mr. Hickl-Szabo made a study trip to Paris, Munich, Vienna, London, and New York, which resulted in the acquisition of a late 16th-century bronze relief and the successful negotiation of a second loan of German art treasures. Mr. Cselenyi visited museums in Amsterdam, Rotterdam, and Vienna, studying the Rembrandt school in connection with a recently acquired drawing.

Mr. Keeble has been active in the Ontario Museum Association and in various Museum committees and councils. He also narrated the commentary for two Museum films for one of which Mr. Kaellgren prepared the scripts.

The staff has identified nearly 1,200 objects for the public and has dealt with at least as many more enquiries by mail.

### Acquisitions

Among important gifts received by the department were a bronze Venus by Benedict Wurzelbauer (Nuremberg,



Terracotta relief, "The Sacrifice of Noah". Italian, Florentine, c. 1680–90, by Giovanni Battista Foggini.



c. 1580), an Italian Renaissance bronze Spinario figure, a mid-18th-century Venetian bronze inkwell, and a lapis lazuli cup from Mr. John Schorscher; some fine Renaissance silver flatware (Nuremberg, c. 1600) from Mr. R.G. Meech; a drawing attributed to Rembrandt from Tip Top Remaco Limited; a marble St. Jerome (Franco-Flemish, 15th century) from Mrs. Lynch Staunton; two Italian gilt wood chairs (1750-99) from Mrs. Ross Murray; an etching by Federigo Baroccio (Italian, early 17th century) from Dr. D. Varadi; four fine pieces of Worcester porcelain (mid-18th century) from Mr. and Mrs. Norman Bell; and an 1840 portable melodeon by Prince from Miss Vera Davis. Outstanding purchases were 18 pieces of furniture bought through a gift from the Garfield Weston Foundation; a bronze *Jupiter with the Infant Bacchus* (Italo-Flemish, c. 1620); a bronze relief of the Crucifixion tentatively attributed to Gasparo Mola (Italian, c. 1600); and a fine snuff box with a portrait miniature of William III.

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## Far Eastern Department

Barbara Stephen, Curator-in-Charge

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The department devoted much of its time this year to projects which had been in abeyance during work on the great loan exhibition from the People's Republic of China. An upsurge in public interest in our galleries was one legacy of the exhibition, and enquiries and visits from the public remained at a high level.

### Exhibitions

Chinese ceramics from the collections were emphasized during the year. "Ch'ing Porcelains from Ching-te-chen" was installed in the Museum subway in January; the blue and white porcelains in Gallery XII were rearranged in new case settings during March; and in the Sung Dynasty ceramics gallery extensive renovation began in June. The outside showcases held a springtime exhibit of Chinese jade trees.

Three exhibitions were planned to coincide with the annual meeting of the Association for Asian Studies held in Toronto in March. Professor Ralph Croizier and Ms. Ruth Anderson organized an exhibition, "Heritage of Centuries: Traditional Style Painters of the People's Republic of China", for the third-floor Rotunda area, and the department is grateful to the friends whose assistance made possible the printing of a leaflet to accompany the show. The loan paintings were complemented by a group of slightly earlier paintings hung in the Ch'ing gallery, the works of "Painters Transitional between Empire and Republic".

A scholarly exhibit of "Oracles and Time in Ancient

China", detailing results of research on Shang Dynasty oracle bones (c. 1300-1028 B.C.), was organized in Gallery I.

The practice of rotating some gallery exhibits seasonally was extended to the main Japanese gallery, and one case here has also been devoted to changing groups of Japanese woodblock prints.

The department received requests for a number of loans. A group of ceramic figures was sent to China Institute Gallery, New York, for the exhibition "Arts of the Six Dynasties"; other objects from the Far Eastern Department were included in a ROM loan to the exhibition "Gemstones" at the Museum of Natural Sciences, Ottawa; and two paintings by the Japanese artist Munakata Shiko were lent to the Art Gallery of Greater Victoria, B.C., to be included in the "Munakata-Matsubara Exhibition".

### Lectures

B. Stephen spoke on her travels in China to the Canine Research Group, and briefed the ROM Japan Tour participants on Japanese art history.

H.Y. Shih talked on China and Chinese archaeology to the University of Toronto Colloquium on Anthropology; to the Gnu Society, University of Toronto; to the Chinese Professional Association, Medical Section; and also to a University of Toronto extension course audience. She presented a paper on "Problems of Coastal Sites in Southeast China" at the Association for Asian Studies meetings in Toronto in March, and was also a discussant for their "Twentieth-Century Chinese Painting" session.

D. Dohrenwend lectured on "Jade Imagery" for the "Shamanism in Early Chinese Art and Literature" session of the Canadian Society for Asian Studies at Laval University. She gave a guest lecture at an undergraduate course on Buddhist art at the University of Toronto and spoke on bronze in the Far East to the Museum's FOROM Group.

P. Proctor gave an intensive session on Chinese ceramics to members of the Museum's Education Department and was guest lecturer on the same subject at York University and for the ROM extension course "Ceramics for the Collector". She participated in the ROM's Gold Lecture Series I, speaking on "The Chinese End of the Rainbow".

T. Quirk spoke twice to the Museum's FOROM Group and gave two guest lectures on Japanese prints at the University of Toronto.

### Teaching

B. Stephen, H.Y. Shih, and D. Dohrenwend continued to hold cross-appointments in the Department of East Asian Studies at the University of Toronto.





Dr. James Chin-hsiung Hsü examining a Shang Dynasty oracle bone.

D. Dohrenwend had the greatest teaching responsibility during the year, participating with B. Stephen in the undergraduate course "Introduction to the Arts of East Asia" and conducting a graduate seminar "Topics in the Art and Archaeology of East Asia". The undergraduate course was given guest lectures by P. Proctor, T. Quirk, and C. Meredith.

H.Y. Shih gave an evening series for the Bishop White Committee on "Methods of Research for Collectors".

### Research and Travel

B. Stephen and S. Irwin completed departmental work on a draft catalogue of Chinese bronze weapons in the ROM collections. During the year H.Y. Shih completed work on a compendium of translated texts dealing with Chinese painting theory, a project sponsored by the American Council of Learned Societies. D. Dohrenwend continued a study of Chinese bronze mirrors, preparatory to writing a catalogue of those in the Far Eastern Department. P. Proctor concentrated on Sung ceramics

in conjunction with gallery planning. C.H. Hsü completed a manuscript on oracle bones in the Far Eastern Department from the collections of Bishop W.C. White and others and continued work on his system for dating oracle bones.

B. Stephen, B. Kingston, C.H. Hsü, and H.Y. Shih all visited the People's Republic of China during the year.

H.Y. Shih travelled to New York, Boston, and Montreal to visit exhibitions and pursue research programmes. She also attended the College Art Association meetings in Chicago and the Wen Cheng-ming symposium and exhibition at the University of Michigan, and organized and accompanied the Bishop White Seminar for Collectors in New York.

D. Dohrenwend travelled to Edmonton, New York, and Quebec City, where she attended meetings of the Canadian Society for Asian Studies. She also attended a symposium on Tibetan Civilization at the Newark Museum,



New Jersey, and a symposium and exhibition of the work of the Ming Dynasty painter Wen Cheng-ming at the University of Michigan, Ann Arbor.

P. Proctor went twice to Montreal as consultant for Revenue Canada, visited the Cleveland Museum of Art, and participated in the Bishop White Seminar for Collectors, held in New York. She and S. Irwin visited museums in Britain and Copenhagen.

## Far Eastern Library

The library has received this year 314 volumes of books, 131 pamphlets, and 154 periodicals. Holdings now total 16,104. Seven hundred and four titles were catalogued during the year. Major donations to the library have come from the Japan Foundation, the Bishop White Committee, Mr. and Mrs. N.S. Robertson, and Mr. H. Sutherland.

## Gifts and Purchases

Many donors enriched the collections during the year, and we are most grateful to them all for their assistance. Our single purchase was an important Japanese Buddhist painting, which strengthens and balances previous holdings in this area.

The department wishes to express its gratitude to all those friends who in so many ways contributed to our work during the year. Special mention should be made of our loyal volunteers, old and new, whose dependable and generous help has been so important to us again this year.

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## Greek and Roman Department

Neda Leipen, Curator

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The collections received province-wide attention this year when a special loan exhibition of a selected group of Greek and Roman material illustrating daily life in antiquity travelled to five university art galleries in southern Ontario. The exhibition required close cooperation with other Museum departments, and special thanks are expressed here to the Registration, Conservation, Photography, Preparators, Carpenters, and Art departments. Thanks are also expressed to the Director and the Collections Committee of the Board not only for giving their permission for the loan but also for their support and encouragement.

## Collections and Gallery Work

The collections were augmented by a number of loans, gifts, and purchases. We thank Dr. Morton Shulman and Mr. Albert Friedberg for a generous long-term loan of a group of five Late Roman - Early Byzantine mosaics.

These offer an excellent basis for the study and teaching of a host of subjects such as iconography, religion, and mosaic technology. We are also greatly indebted to Mrs. Paul Baker for the gift of an excellent reproduction of the superb horse's head from the east pediment of the Parthenon; and to Mrs. Kathleen McGreer for her gift of two Attic black-ware cups (*kantharoi*) of the 5th century B.C. and a female terracotta statuette of similar date and provenance. Other generous donors were Mr. F. Minarovich and Mr. J.B. Hopkins.

Outstanding among the purchases was a rare Greek silver juglet of about 500 B.C. and a small silver ladle, both examples of fine ancient tableware, a class of objects hitherto unrepresented in our collections. Two excellent pieces of pottery were also acquired, one a 2nd-century A.D. Roman jug in the form of a caricature of an old woman, the other a Coptic offering dish.

The Curator arranged a new exhibit of Greek, Etruscan, and Roman jewellery: the new installation and the recent cleaning by the Conservation Department have greatly enhanced this fine collection.

Mrs. Easson put out a handsome display of Merovingian (Frankish), Anglo-Saxon, and Viking jewellery and other small items, and completed a wall-case exhibit of artifacts from Britain and Europe dated to before and after the period of Roman rule.

## Research, Field Work, and Publication

Mrs. Easson has started work on her publication of Greek coins at the ROM. In discharging her responsibility for the Romano-British collection she has concentrated on the mould-decorated samian ware manufactured in South Gaul during the 1st century A.D. For the eventual major publication of our considerable holdings in this field she has been preparing the 1:1 pen-and-ink drawings.

John Hayes wound up his work on the Greek black-figure pottery collection for a projected fascicule of *Corpus Vasorum Graecorum*, which is now in manuscript form. He has also made considerable progress in his study, for future publication, of our large collection of pottery lamps. In May 1976 he spent some time at the ROM excavations at Fengate, England, and in June he was pottery consultant for the second season at the excavations at Carthage sponsored by the University of Michigan and the Smithsonian Institution.

The Curator studied and brought up to date the catalogue information for the jewellery prior to its new installation; she researched and re-catalogued, prior to publication, a group of Bronze Age (2000 B.C.) terracotta votives from the peak sanctuary at Petsofà, Crete, acquired through Dr. C.T. Currelly's participation in the 1902-1903 excavations by the British School of Archaeology. Mrs. Leipen also continued her work on the Greek and Roman sculpture at the Museum, especially



the pieces formerly in the Ludwig Curtius collection which she has been invited to publish in the German serial *Antike Plastik*.

After long preliminary preparations, Research Associate Dr. J. Shaw has finally been able to start his excavation project at Kommos, Crete, a Bronze Age harbour town.

Research Associate for Numismatics, Dr. J.S. Wilkinson, generously continued to give us his time and expertise, for which we are deeply grateful. In the summer of 1975 Mr. Lloyd Bregman joined us again for a few weeks of work, also in numismatics. All work in this field was directed by Mrs. Easson.

### Exhibitions and Loans

A loan exhibition entitled "Greek and Roman Life in Miniature" was organized by the Curator and shown at five university art galleries in the province (Brock, McMaster, Wilfrid Laurier, Queen's, Western Ontario). A group of over 40 selected objects illustrated such aspects of daily life as religion, warfare, social life, athletics, and transportation. The exhibit, which attracted high-school and university students as well as the public, was supported by illustrated public lectures given by the Curator.

A Greek bronze vessel (*patera*) was lent to the Walters Art Gallery, Baltimore, for a loan exhibition "Greek and Roman Metalware", February 14 - April 14.

### Lectures, Teaching, and Professional Meetings

In connection with the loan exhibition of Greek and Roman daily life Mrs. Leipen lectured at a number of universities throughout the province. She also addressed the Joseph Brant Archaeological Society in Burlington, and gave an illustrated lecture to the Archaeological Institute of America, Montreal Chapter (Francophone) on "Athéna Parthénos - Une Reconstruction".

John Hayes read a paper on "Early Roman Wares from Paphos, Cyprus" at Kaiseraugst, Switzerland; and on "University of Michigan Excavations at Carthage, 1975: a System for Quick Publication of Pottery Finds" to the annual meeting of the Archaeological Institute of America. In May he participated in a ceramics seminar in Calgary, sponsored by the Calgary Board of Education, with a talk on Greek pottery.

At the Museum Open House in March, Dr. J. Shaw talked about his forthcoming excavations in Crete to audiences invited to visit "behind the scenes" in the departmental study-storage and lab areas.

Research Associate Dr. J.W. Graham gave a lecture entitled "A Golden Race of Mortal Men" in the Gold Lecture Series.

Mrs. Easson gave a seminar on samian ware to a Uni-

versity of Toronto Fine Art graduate class. To a very appreciative audience, the Extension Services senior citizens group FOROM, she presented an illustrated "Survey of Ancient Coinage". With Dr. Wilkinson she attended the Counterfeit Detection seminar, held by the Organization of International Numismatists and sponsored by the Toronto Coin Club.

As a cross-appointee to the University of Toronto Fine Art Department (as Associate Professor) Mrs. Leipen taught a course on Greek terracottas.



Curator Neda Leipen arranging the new exhibit of Greek, Etruscan, and Roman gold jewellery.

### Public and Museum Service

About 500 various objects were brought in for identification, the largest percentage of them being coins, and innumerable enquiries from the public were answered. Talks were given to senior citizens, Open House audiences, Teachers' Nights groups, Members' Committee groups, museology students, and others. The resources of the department were made available to visiting scholars from many parts of the world, including Stockholm, Geneva, New York, Jerusalem, and Tübingen.

Mrs. Easson served on the committee for selection of an Associate Director (Curatorial) and as a member of the Art and Archaeology Task Force, Electronic Data Processing Committee. In January she was elected to serve as Chairman of the Art and Archaeology Curatorial Council.

A most generous donation by Mrs. Easson of \$1,000 to the Greek and Roman special trust fund for the purchase of a Nikon spectroscopic zoom microscope and reference books on ancient coins is most gratefully acknowledged.



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## Philately Department

Fred Stulberg, Honorary Curator

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During the past year the practice of having loan exhibits on display in the lower Rotunda continued. These included the "Law Stamps of British Columbia", "Embroidered Post Cards of World War I", "Stamps of Montenegro", "Victorian Christmas Cards", "Canadian Stamp Cancellations of the Nineteenth Century", "Stamps of the Olympics", and "Early Mailings from India".

Two exhibits arranged through the department went out on loan. The first ("The Pence Issues of Canada") was displayed at the Ridge House Museum, Ridgetown, Ontario, to mark its opening. The other ("Legislative Postal Markings of the Nineteenth Century") was shown at a Toronto shopping centre as part of a "Canada promotion".

Approximately 50 people from a local stamp club were guests of the ROM at a slide-illustrated lecture by the honorary curator on the "Basics of Stamp Collecting".

Over 15 enquiries concerning the value and genuineness of philatelic items were received, and these were resolved satisfactorily.

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## Textile Department

John E. Vollmer, Assistant Curator-in-Charge

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This has been a year of transition. In June Katharine B. Brett retired after 25 years with the Museum. Administrative duties were assumed by John Vollmer, who was appointed Assistant Curator-in-charge pro tem. Mary Holford joined the staff as Assistant Curator to deal with costume collection. Dorothy Burnham was promoted to the rank of Curator and Veronika Gervers to Associate Curator. Through the concerted team effort of the entire staff this transition has been effected smoothly with minimal disruption to departmental programmes.

Informal public service continued to involve much of the available office time of the department. Some 850 visitors approached the department for expertise and were seen personally by the curators. Telephone enquiries probably approached 1,500, while nearly 850 letters were answered.

In November a major special exhibition, "Curator's Career", was mounted to honour the retirement of Mrs. Brett. Ranging through four galleries, it featured a selection of costumes, accessories, and textiles, which

were either acquired by the ROM during Mrs. Brett's tenure or were subjects of her researches. A Life Members' reception and tribute by Mrs. Edgar J. Stone marked the opening of the exhibition.

In addition to "Curator's Career" six other special exhibitions were mounted in our galleries: "Ontario Pieced Quilts"; "From the Marmora to the Great Wall of China — Oriental Rugs in the ROM"; "Batik"; "Felt Making"; "Recent Accessions in Canadian Textiles"; and the first half of a two-part costume exhibition honouring the American Bicentennial. Material displayed in the cases throughout the building, as well as a new carpet display in the Rotunda, was rotated. These shows were regularly toured by volunteers from the Members' Committee.

Each of these exhibitions involved considerable special research, design layout, and label writing by the responsible curator and much expert work by Judith Cselenyi, Charlotte Zuppinger, and Ilona Andrews.

### Extension and Loans

Mrs. Burnham organized eight panels of Canadian hand-weaving samples designed to be touched and studied by special interest groups in the province. This successful project is circulated by the Extension Department. In addition, the Textile Department assisted with two travelling loans for the ROM gallery at Windsor. A travelling photograph exhibit of Eastern European costume was also arranged.

Fourteen loans totalling 71 items were made from the collections. Eight went to institutions within the province; two went to other provinces, three to the United States, and one to Great Britain. The ROM was represented in two major international exhibitions: "Raiment in the Lord's Service", a survey of masterpieces of Western liturgical apparel organized by the Chicago Art Institute; and "The Arts of Islam" at the Hayward Gallery, London, organized by the Arts Council of Great Britain for the "World of Islam" Festival.

### Teaching and Lectures

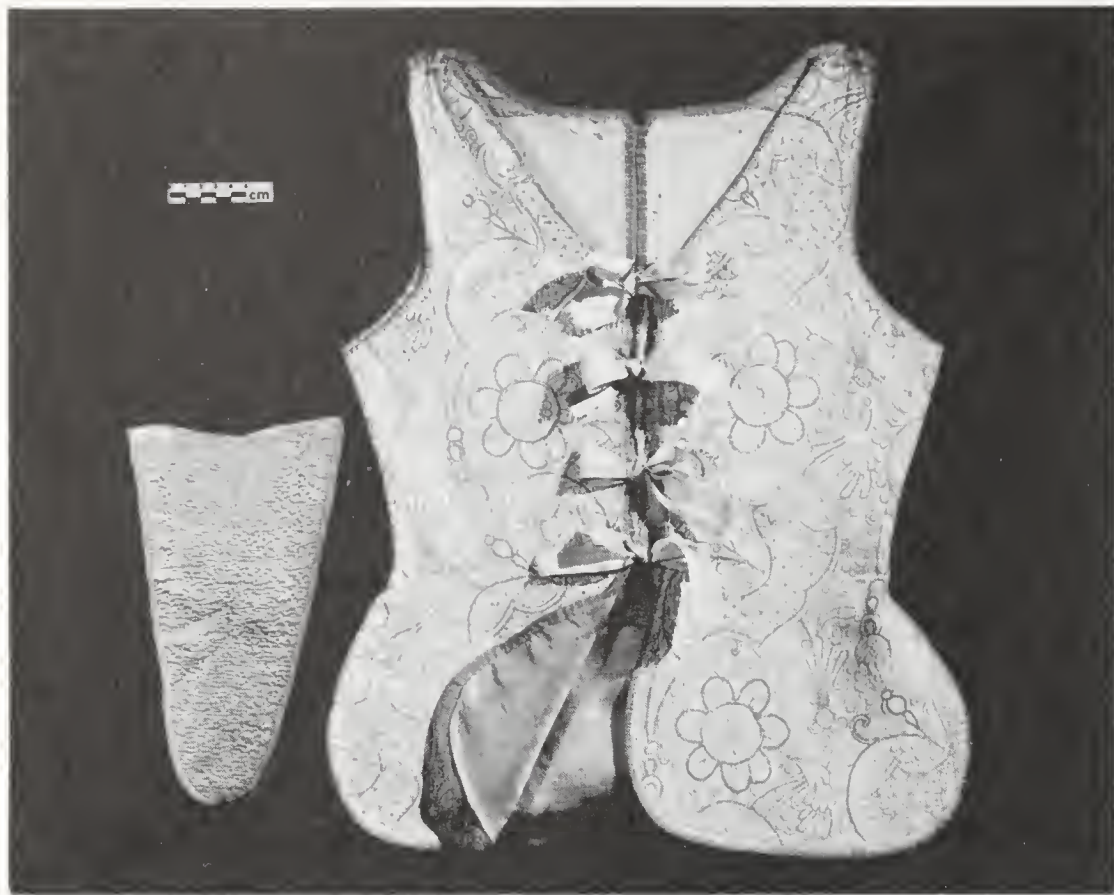
Dr. Gervers taught half of an undergraduate survey course on mediaeval art at Scarborough College in the autumn and gave guest lectures in other university courses. Mrs. Holford gave costume courses at Ryerson Polytechnical Institute, Seneca College, and Sheridan College.

Each of the four curators gave an average of two public lectures a month. The Saturday Morning Club was given a tour behind the scenes on three occasions.

### Collections

Ever-present pressures to provide adequate storage for growing collections prompted the building of a storage area off the special exhibition gallery. The storage for nearly one-third of the collections (about 4,000 pieces) was reorganized to make better use of the limited space.





An important early-18th-century woman's bodice and stomacher made of embroidered linen trimmed with yellow silk. Gift of the Members' Committee in honour of the retirement of Mrs. Brett.

This involved making new finding lists and marking all records as well as shifting the material, a major undertaking with limited staff.

### Conferences and Research

In September Mrs. Burnham attended the CIETA meetings in Lyons to present the revised English vocabulary of textile terminology. There she received authorization for the ROM to publish this valuable contribution to textile studies. In April she presented a paper on Canadian plaited sashes at the Irene Emery Roundtable Discussions on Western Hemisphere Ethnographical Textiles at the Textile Museum in Washington, D.C.

In September Dr. Gervers presented papers at the Fifth International Conference of Turkish Art in Budapest and at the Third International Congress of Slavic Archaeology in Bratislava, Czechoslovakia. In November she acted as respondent to the Hungarian section of a seminar on "Art and Architecture in Central and Eastern Europe" organized in New York by the East European Centre of Columbia University and the Society of Architectural Historians.

In March Mr. Vollmer acted as courier for the "Arts of Islam" exhibition, personally carrying the ROM contribution to the festival. During the following six weeks he visited museums in England, Holland, Germany, and Denmark, surveying collections of Oriental textiles and preparing for the forthcoming Chinese costume exhibition in 1977.

Mrs. Holford attended the American Costume Society meetings in Florida and travelled to New York and Mas-

sachusetts to study costume and to acquire items for the collections.

### Museum Service

Dr. Gervers continued to serve on the Art and Archaeology Editorial Committee of the ROM and sat on a special tenure review committee for the University of Toronto. She completed editorial work for the Burnham memorial volume and served as corresponding editor of the *Canadian-American Review of Hungarian Studies*.

Mr. Vollmer was a member of the Extension Committee, the Communications Design Team, and the Art and Archaeology EDP Task Force, and served on two *ad hoc* committees assisting with the drafting of loan and disposal documents. He also chaired the Textile Department search committee seeking a curatorial replacement for Mrs. Burnham, who plans to retire in November 1976.

### Acquisitions

Items accessioned during the year were varied and totalled 1,146. Once again most of the support for the growth and improvement of the collections has come from private donors.

Several important early Islamic fragments from Egypt and Iran were added to the collections with the help of the West Asian Department. The Greek and Roman Department assisted in the acquisition of some Coptic material. A group of Guatemalan costumes acquired jointly with the Ethnology Department are among notable additions to the collections of regional costume and weaving.



The most significant Canadian acquisition was the purchase of a set of 18th-century crewel work curtains associated with Sir John Monk of Halifax, Nova Scotia.

A large collection of late 18th- and early 19th-century American costume, and collections of 20th-century fashionable wear were among some 650 items added to the costume collection.

### Textile Endowment Fund

The Textile Endowment Fund Committee chaired by Mrs. W.B. Harris spent a busy year promoting the department and raising monies for the fund. The steering committee, working closely with the department, sponsored a highly successful lecture series given by the staff in conjunction with "Curator's Career", which was repeated in the spring. In February with the approval of the Board, a letter of appeal and announcement was mailed to a select list of department friends. This, combined with other contributions and honoraria, ensured a sizable increase in the fund.

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## West Asian Department

T. Cuyler Young, Jr., Curator

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There has been much coming and going in the department during what has proven to be a busy and profitable year. Dr. Young came home from a sabbatical leave last July; Dr. Levine has been away on leave in Iran and Israel most of the year. Drs. Keall and Golombek and Messrs. Breede and Pratt are either now, or have been, in the field. Those who have stayed at home, however, have been equally busy.

### The Collections

Significant additions to the collections have resulted from the department's archaeological field work. The Kangavar Valley Survey materials include documented archaeological specimens from over 100 sites in western Iran, ranging in date from Late Neolithic to recent Islamic. Our survey of the Kermanshah Valley in Iran has yielded materials of comparable date, quality, and quantity. An exchange, not yet completed, with the Hebrew University of Jerusalem will give us Palaeolithic and Neolithic materials from Israel, primarily from the Negev. A small but useful collection of Bronze Age artifacts from the British excavations at Haftavan Tepe in Azerbaijan, Iran, comes to us in return for a modest contribution in support of those excavations. Excavations at Qaleh-i Yezdigird continue to produce archaeological materials which greatly enhance the collections in a time range (Parthian — Sasanian) for which we have hitherto had little coverage.

Purchases have been limited in quantity, but not in quality. In view of restricted funds and the high prices now characteristic of the market, we have done just

about as well as was possible. A 17th-century Islamic manuscript, a 19th-century Qajar lacquered pen case, and three *tiraz* textile fragments (bought in conjunction with the Textile Department) were acquired.

### Galleries

A new table case display on the 1974 Kangavar Valley Survey was mounted in the Palestine Gallery. The special display on Dr. Golombek's researches into the ancient city of Isfahan, shown in the display alcove which we share with the Egyptian Department on the second floor, was well received both by the public and by visiting specialists. Minor changes were effected in the Islamic Gallery, and Dr. Golombek assisted in the display of illustrations of Turkish costume.

### Field Work

Dr. Levine conducted an archaeological survey of the Kermanshah Valley, Iran, from June to September 1975. He then joined colleagues from the Institute of Archaeology of the Hebrew University of Jerusalem in a survey and excavation at the Jebel Maghara in the northern Sinai in January 1976. Dr. Keall conducted the first season of excavation at Qaleh-i Yezdigird in the summer of 1975 and returned to that site for a second season in April 1976. He was joined last summer by Mr. Breede, and this summer has Mr. Pratt with him. Dr. Golombek and Mr. Breede undertook a second field season in Iran on the Isfahan City Project in the spring of 1976. The Kermanshah Valley Survey, the excavations at Qaleh-i Yezdigird, and the Isfahan City Project were all supported in part or in whole by grants from the Canada Council.

### Research

Dr. Keall continued his research on Parthian Nippur and became involved in an attempt to prepare for publication the old field records of the Oriental Institute's excavations at the city of Rayy, conducted in the 1930s. Analysis of the excavation results from Qaleh-i Yezdigird continued. Dr. Golombek, besides working on the Isfahan City Project, completed the catalogue of the Galbraith Collection and pursued studies on the wood grave cover acquired some time ago for the collections. She also continued her investigations of Timurid architecture with a view to a major publication. Dr. Levine made great strides forward in preparing the results of the Kermanshah Valley Survey for computerization, did further research on Neo-Assyrian history and on the results of the excavations at Seh Gabi, and travelled widely in Israel to visit numerous archaeological sites. Dr. Young managed to do some further research on Periods II and III at Godin Tepe in preparation for major excavation reports on that site. Almost all of the excavation data from Period III are now on computer tapes and ready for detailed manipulation.

### Lectures, Teaching, and Other Services

Staff members of the department gave a total of 14 scholarly lectures in the past year at such widely separated



places as Toronto, Berlin, Jerusalem, Tehran, Kent (Ohio), Chicago, Philadelphia, and New York. A total of 16 popular talks were given, including several to school groups, either in the department or in schools in Toronto, Ottawa, and Waterloo.

Many of the department's members have been involved in university-level teaching. Dr. Levine gave two archaeology courses as a visiting professor at the Hebrew University of Jerusalem; Drs. Keall and Golombek taught one undergraduate and one graduate course in the Department of Islamic Studies at the University of Toronto; and Dr. Young taught a one-term undergraduate course, one full graduate course, and part of another, and also supervised two Ph.D. dissertations in the Department of Near Eastern Studies of the University of Toronto. Dr. Young also served on a doctoral examination committee in political science at York University.

Materials from the collections were loaned to the Ontario Science Centre, the Festival of Islam in London, England, several elementary schools in Toronto, Scarborough College, and the University of Toronto. The department identified some 49 separate artifacts or lots of artifacts for members of the public.

As in the past, intramural and extramural public and academic service took a fair amount of time. Dr. Keall continued to serve on the Art and Archaeology Editorial Committee of the Museum. Dr. Young and Dr. Levine were re-elected President and Secretary respectively of the Board of Trustees of the American Institute of Iranian Studies, which represents some 28 North American institutions of higher learning with academic interests in Iran. Dr. Young spent August 1975 in Iran serving on the International Board of Consultants designing the Pahlavi National Library, the new seven-million-volume national library of Iran; in January 1976 he assumed the duties of Curatorial Coordinator of the Art and Archaeology departments of the Museum. Dr. Golombek serves on the curatorial search committee for the Textile Department.

Mrs. Ronald Hart, our volunteer from the Members' Committee; Terry Wang, Department Secretary; and some eight part-time research assistants (usually graduate students from the University of Toronto) all supported this diverse activity with a good deal of hard work and great cheerfulness.



The Empress of Iran receives Dr. E.J. Keall at the opening of an exhibition in Tehran of the latest archaeological finds from the ROM excavations at Qal'eh-i Yazdigird.



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## Botany Department

John L. Riley, Curatorial Assistant

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In 1975-76 the activities of the Botany Department were focused on attempts to consolidate and improve the storage conditions of the herbarium. This followed the contribution of significant collections and the addition of numerous cabinets to the herbarium.

It was with mixed feelings that we received the news of the appointment of Dr. J.E. Cruise, the herbarium's curator, to the directorship of the Museum. While losing a fine curator and teacher, we welcome a respected administrator to the Museum. Dr. John W. Grear, University of Toronto, was appointed as the new Curator. He is continuing his teaching in taxonomy and his research on tropical legumes and has been enthusiastic in his suggestions for and support of improvements around the herbarium.

### Acquisitions

In the spring the Faculty of Forestry of the University of Toronto responded generously to the request that our herbarium be considered a possible repository for the important collections of two prominent Canadian forestry botanists, James White and R.C. Hosie of the University of Toronto. The White collection, primarily from the former forests and bogs of the Snelgrove area of Peel County, consists of about 3,000 sheets, all of which are exceptional specimens, from the period 1890-1910. Dr. White's personal exchange programme brought him into contact with other botanists of the day. For example, the collection contains about 500 historic specimens collected by John Macoun, the father of Canadian botany, from the southwestern parts of British Columbia.

Hosie continued White's work on the native trees of Canada, and his personal collection reflects this interest in woody plants. It also contains his many collections, mainly from about 1928-40, from northern Ontario, where he often accompanied Botany staff on their investigations of the Lake Superior area and northwestern Ontario. Thus the generous gift of these collections to the herbarium reunites many of the collections of contemporaneous early Ontario botanists and foresters.

Other notable collections added to the herbarium include those from Cochrane District, the Inuvik-Tuktoyaktuk area, the Niagara Escarpment Nature Reserve Study, James Bay, halophytic habitats, Killarney Provincial Park, Goose Bay (Labrador), and many others.

### Teaching and Public Service

This work has continued apace, with the feeling that the herbarium is playing an important role as a clearing

house for life-science information of various kinds. The Parks branches of various agencies have made use of herbarium facilities with increasing and encouraging frequency, using the collections as the basis of floral checklists of Algonquin Park, High Park, and Toronto Island, as well as for distributional records of interesting components of the flora of the Niagara escarpment. Comment on life-science inventory reports in various parts of the province has also been requested, and there has been the usual large volume of public and agency enquiries.

Teaching duties involved the instruction of students of systematics in herbarium techniques, exchange / loan procedures, herbarium library materials, and laboratory equipment, as well as the collection and maintenance of pickled and dried materials for teaching purposes. The staff offered a course with the School of Continuing Studies on the flora of Ontario, assisted with the Saturday Morning Club, lectured at the Toronto Field Naturalists Club, and led various field trips.

Drs. J.E. Cruise and J.W. Grear are supervising graduate students preparing work on ladies' tresses orchids, blue-eyed grasses, fireweeds, panic grasses, and cherries. These studies and other environmental and physiological researches all make use of the ongoing loan and seed exchange programmes.

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## Department of Entomology and Invertebrate Zoology

Glenn B. Wiggins, Curator

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During the past year there came to an end an important period in the development of the department's collections of Lepidoptera, with the retirement of our Research Associate, the Rev. J.C.E. Riotte. Since his appointment in 1962, Father Riotte has worked indefatigably to develop the department's nucleus collection of Lepidoptera into the primary source of systematic research material for these insects in the Ontario fauna. He spent every summer in some part of Ontario, collecting butterflies by day, and moths at black lights by night. Eggs from adults of known identity were reared through all stages, establishing the basis for an extremely important reference collection of larval Lepidoptera. The growing body of data in the collection was used by Father Riotte as the basis for a number of papers, culminating in his *Annotated Checklist of the Lepidoptera of Ontario*, soon to be published by the Museum, and destined to be a standard reference work. The department has gained an exceedingly valuable scientific resource, and Father Riotte's work stands as an outstanding contribution to the Museum's objective of faunal exploration.



It is with particular pleasure that the department welcomes as a new Research Associate, Professor H.B.N. Hynes, Department of Biology, University of Waterloo.

### Research and Field Work

The main project during most of the year for Dr. Wiggins was the manuscript for the reference book *Larvae of the North American Caddisfly Genera*, which was completed and submitted to the University of Toronto Press in March; Mr. Yamamoto was also heavily involved in analysis of specimens for the manuscript. Work was begun on the Trichoptera section invited for inclusion in the book *Study Guide to Aquatic Insects* being organized for publication in the United States; illustrations for the diagnostic keys to families are being prepared by Ms. Zichmanis under Dr. Wiggins' direction. Further progress was made in biochemical studies of certain Trichoptera with Dr. Chua of the Laboratory of Analytical Systematics.

For his studies of water mites, Dr. Barr undertook several field expeditions during the past year: to eastern Canada

in August; to Panama in February; to Alberta and British Columbia in May; and to the Adirondack Mountains of New York in June. He continued his revision of the genus *Sperchon* with Mrs. Sutton and made further progress on a key to females of the genus *Arrenurus*. With the support of a National Research Council operating grant, Dr. Barr extended his analysis of swimming behaviour in water mites.

In his work on planarians, Dr. Ball carried out field work in North Carolina and Virginia in cooperation with Dr. Nicole Goubault, Museum National d'Histoire Naturelle, Paris. He continued work on the handbook of the eastern Canadian planarians; and he worked on a study of temporary-pool planarians with Dr. Roman Kenk of the Smithsonian Institution.

### The Collections

Under Mr. Yamamoto's direction, acquisition of new materials for the insect collection was concentrated on the Nogies Creek area of Ontario (Peterborough Co.). Mr. Yamamoto also undertook a series of spring field trips in Ontario for a study of larvae of the caddisfly



The Rev. J.C.E. Riotte, Research Associate in Lepidoptera, working with giant silkworm moths in the research collection.



family Hydropsychidae, and he completed reorganization of the Trichoptera collection. Reorganization of the Hymenoptera collection, long overdue, was begun, and Professor R.L. Fischer, Michigan State University, accepted an invitation to undertake the project. Expeditions by Dr. Barr, in an especially active year of field work, were responsible for the addition of some 14,000 mites to the collection. Mrs. Carson completed a review and reorganization of the important ascidian collections. Reorganization of the Turbellarian collection was continued by Ms. Smith and Ms. Vinh-Hao.

### Lectures and Teaching

In the University of Toronto, Dr. Wiggins again offered the course Aquatic Entomology and directed the work of graduate students. He presented two lectures to the museology students and a lecture on domestic invertebrates to a training programme for military hygienists of the Canadian Armed Forces. He also gave an invited lecture on the biology of temporary pools in a series of seminars for school teachers sponsored by the Conservation Council of Ontario.

Dr. Barr again presented the course Advanced Invertebrate Zoology in the University of Toronto; he directed the studies of two M.Sc. students, and served on one Ph.D. examining committee. He presented lectures in two other university courses, gave laboratory instruction in a third, and supervised student projects. Dr. Barr also presented invited lectures at Utica College and St. Lawrence University in New York State, and was a member of the faculty for the First International Field Workshop of Aquatic Invertebrates at St. Lawrence University.

Dr. Ball was appointed Assistant Professor in the Department of Zoology, University of Toronto, and Honorary Research Associate in the Faculty of Graduate Studies, University of New Brunswick. In addition to lecturing to students at the universities of Waterloo, Toronto, and New Brunswick, he also served as an instructor at the Youth Science Foundation Summer Science Programme, University of New Brunswick, and supervised two student projects at Seneca College, Toronto. Dr. Ball presented invited papers at the First International Conference on the Meiofauna species in Space and Time in Bermuda, and at the symposium on Systematics and Evolution at the annual meeting of the Canadian Society of Zoologists in Regina. Dr. Ball served on the organizing committees for both these symposiums. He also gave invited lectures at the American Museum of Natural History and to the Biostratigraphy Seminar held in the ROM.

### Interpretative Programme

Substantial progress was made with the department's Gallery of Arthropods. During the year, a series of discussion and planning sessions led to completion of the story-line script; initial discussions have been held with the design staff, and we now await word from the administration to proceed. Under Dr. Barr's direction

Ms. Zichmanis prepared a new display on harvestmen; and in cooperation with Mr. Yamamoto, she also prepared an exhibit on Canadian insects for the Members' lounge in the Museum. Our travelling exhibit on Canadian insects continued to circulate to Toronto libraries and was returned for display in the Royal Bank Building. It was particularly satisfying to see the results of the department's survey of household spiders published this year under Dr. Barr's direction.

### Other Staff Activities

Dr. Wiggins continued to serve as project coordinator for the Laboratory of Analytical Systematics, and Dr. Barr as group coordinator for the Biochemistry-Histology facility. Dr. Barr also served on the Communications Design Team, the search committee for an Associate Director of the Museum, and the Extension Committee. Dr. Ball served as senior editor of ROM Life Sciences publications, and was appointed to the editorial board of *Systematic Zoology*. Mr. Yamamoto served as Chairman of the Science Curators' Council.

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## Department of Ichthyology and Herpetology

E.J. Crossman, Curator-in-Charge

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Activities this year centred on staff and departmental organization, heavy administrative and public service, extensive gallery activity, and local, national, and international studies. A developing community interest in the Herpetology collections, files, illustrations, and literature resulted in an increased departmental involvement. Dr. W.B. Scott returned to curatorial activities, but Dr. A.R. Emery was heavily engaged in administrative duties.

### Field Work and Research

Dr. Scott was occupied with the revision of the book *The Fishes of the Atlantic Coast of Canada*. In this he was ably assisted by Milly Scott, and together they have finished *A Checklist of Atlantic Fishes*. Dr. Scott's lantern fish study included the discovery of a new species and the manuscript, co-authored with Dr. R.E. Zurbrigg, has been accepted by the *Canadian Journal of Zoology*. Dr. Scott's other work on Canadian Atlantic fishes involved a number of shorter studies which will result in academic and practical publications.

Dr. Emery extended his work on sound production in fishes and on the systematics of species and groups of damselfishes. In his documentation of sounds and communication he experimented with the separation of "word forms" and also was able to isolate a type of "warning signal" that may be common to many schooling



species. The damselfish research involved the comparison of skeletal characteristics and the final stages of revisions of two genera on a worldwide basis. It is now apparent that approximately 25 new species will result from these revisions. Dr. Emery also completed several projects started during his affiliation with the Ontario Ministry of Natural Resources, and continued, with members of that ministry, a study of the breeding behaviour of the splake.

Cheryl Goodchild assisted Dr. Emery with the special preparations and the dissection of fishes involved in the pomacentrid study. She also carried out the major part of the preparation of a bibliography of the muskellunge which she will co-author with Dr. Crossman.

Peter Buerschaper spent June in the Bathurst Island area, at latitude 77°, observing, sketching, and photographing Canadian Arctic animals as a member of the research team of S.D. MacDonald, Curator of Vertebrate Ethology, National Museum, Ottawa.

Dr. Crossman collected fishes in the Yukon Territory in June. His other field work centred mainly on the study of the muskellunge at Nogies Creek. The work on this important sportfish, involving the use of radio transmitters to follow the fish and of an electroshocker to catch them, has attracted considerable press and television coverage.

### Exhibitions

A major ROM exhibition "Animals in Art", the brain-child of Peter Buerschaper and Terry Shortt, consumed a considerable part of the energy of the department. Mr. Buerschaper was totally involved in the preparation of the exhibit and of the catalogue, while others acted as curatorial liaison and as hosts to speakers in the companion lecture series. The show was highly acclaimed and the well-illustrated catalogue, supported financially by the Canadian National Sportsmen's Show, will be a continuing index and resource for studies of animals depicted in art. Messrs. Buerschaper and Shortt prepared or initiated nine major magazine articles about the exhibition.

A display involving a model of a Coelacanth was completed and was featured in the ROM exhibit at the Canadian National Sportsmen's Show before being installed in the Fish Gallery.

An exhibit depicting the fish collection and designed to introduce to the gallery visitor the functions of study collections was mounted in the Fish Gallery.

Vandalism necessitated the restoration of several of the reptile cases, and an impressive mounted Nile crocodile was acquired.

### The Collections

During the year, 271 lots of fishes, amphibians, and rep-

tiles were accessioned, and 11,174 specimens were catalogued into the study collections.

Material was received from 57 different individuals and institutions. The Ontario Ministry of Natural Resources and the Fisheries and Marine Service, Environment Canada, were, as usual, our most significant sources after staff activities. Specimens arrived from Curacao, Puerto Rico, Australia, Colombia, England, France, and various U.S. states and Canadian provinces. Loans or exchanges of study collections were made with nearly 30 institutions at home and abroad.

### Lectures and Teaching

Lectures given included "Ecology and the Catastrophe Theory" by Dr. Emery at Cornell University, "The Dusty Image of Museum Research" by Dr. Crossman at the State University of New York at Buffalo, and a number of public service lectures.

Drs. Scott and Crossman gave the University of Toronto ichthyology course, and Dr. Emery taught the fishery biology section of another U of T course, Fish and Wildlife Biology, in the Faculty of Forestry.

Dr. Crossman supervised the postgraduate training of two students at the University of Toronto, and served on the supervisory committee of five others at various universities.

### Honours and Appointments

Dr. Scott officiated at the opening of the new wing of the St. Andrews Biological Station, Environment Canada. He continued in his appointments as Professor in the Department of Zoology, University of Toronto, Governor of the American Society of Ichthyologists and Herpetologists, associate editor of the *Canadian Journal of Zoology*, and member of the board of the Ontario Council of Commercial Fishermen, and was newly appointed to the Advisory Board of the Atlantic Salmon Association.

Dr. Emery was elected to the Board of Governors of the American Society of Ichthyologists and Herpetologists, and received a Commendation Award from the Sport Fishing Institute (Washington, D.C.).

Dr. Crossman held appointments as Professor, Department of Zoology, University of Toronto; Adjunct Professor, University of Guelph; Governor, American Society of Ichthyologists and Herpetologists; and Director, Canadian Society of Environmental Biologists, and was appointed to the Advisory Board, Canadian Section, Great Lakes Fishery Commission. He was awarded the annual Kortwright Award for Conservation, and received research grants from the National Research Council and Canadian National Sportsmen's Show.

Peter Buerschaper continued to serve as a Director of the Federation of Ontario Naturalists.



## Museum Service

On December 31, Dr. Scott ended his term as Associate Director (Curatorial), but he continued to act in an advisory capacity and prepared a detailed report entitled "Supplementary Income and Related Activities by ROM Staff".

In January Dr. Emery was appointed Coordinator of Science Departments, and during the year he served as Chairman, Personnel Services Committee; Chairman, Joint Editorial Board; and member of Director's advisory, Promotions, Salary Review, Acquisitions, and Programme Review committees.

Dr. Crossman acted as Chairman of the ROM Electronic Data Processing Committee and as coordinator of EDP services for science departments, and represented the ROM on the University of Toronto's Department of Zoology policy committees for the Laboratory of Analytical Systematics, Graduate Affairs, and Computer Services.

## Meetings

The curators attended meetings of the Midwest Fish and Wildlife Conference in Toronto (December), the Canadian Conference on Freshwater Fisheries Research in Ottawa (January), and the American Society of Ichthyologists and Herpetologists in Fairbanks, Alaska (June). Peter Buerschaper attended the annual meeting of the Federation of Ontario Naturalists in Toronto (June), and was in charge of organizing their annual photographic slide contest.

## Public Service

Dr. Emery and Dr. Scott were repeatedly called on for consultation or interviews by radio, television, artists, and others. All curators continued to serve in an advisory capacity to various public bodies such as Molsons OFAH Big Gamefish Contest, the National Freshwater Fishing Hall of Fame, Metro Parks, the Management Committee for Kawartha Lakes, Muskies Inc., Toronto Anglers' and Hunters' Association, the Canadian National Sportsmen's Show, and Sunbury Shores Art and Nature Centre, as well as to the media, teachers, diving groups, and sports equipment suppliers. This aspect of departmental activities seems to expand faster than any other. All three curators acted as referees for scientific and interpretive journals and for scientific granting agencies.

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## Department of Invertebrate Palaeontology

Desmond H. Collins, Curator

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The department's major activities were a two-month, eight-man collecting party at the famous Cambrian

fossil locality, the Burgess Shale, in British Columbia, and smaller collecting trips to Nova Scotia and Jamaica; the production of a comprehensive plan for the renovation of the Invertebrate Palaeontology Gallery; the re-cataloguing of the collections on a computer-based storage and retrieval system; the publication or submission of seven palaeontological manuscripts; and the organization of a successful Palaeontology and Biostratigraphy Seminar at the ROM.

## Retirement of John Monteith

The year was marked by the retirement of Assistant Curator John Monteith after 41 years in the department. John came in 1935 as Secretary / Technician in the Museum of Palaeontology headed by its first Director, Professor W.A. Parks. Before that he had been for seven years in the departments of Geology and Chemical Engineering of the University of Toronto. Over the next 41 years, he was successively Secretary / Technician, Chief Technician, Research Assistant, Curatorial Assistant, Acting Head, and Assistant Curator. John Monteith has helped to build galleries and to tear them down again; to integrate collections and to divide them up again; to rebuild fossils with great skill and to destroy all but a sliver of others by sectioning them. Most of all, he has helped three generations of fossil collectors to understand and enjoy fossils in such a way that they regard him (and the Museum) as a friend. He will be sorely missed. His warmth, humour, and experience ("it's all been done before") are irreplaceable.

## The Burgess Shale Collecting Party

The most famous fossils in Canada occur in a small area high up on the side of Mt. Wapta in Yoho National Park, British Columbia. The fossils are impressions of dozens of different kinds of soft-bodied marine organisms which lived 550 million years ago. They provide a unique, comprehensive view of life as it was in the remote past, not long after multi-celled life first appeared.

Excavation was forbidden by Parks Canada, so collection was restricted to picking over the talus dumps left by previous excavations. Despite this restriction and the foul weather, enough display-quality specimens were collected to produce for the renovated gallery the first first-class display of Burgess Shale fossils in Canada, and to make available on a cost-sharing basis duplicate specimens of some species for museums and geological institutions across Canada.

David Rudkin identified most of the specimens collected. His identifications have been confirmed by Drs. Briggs and Conway-Morris, members of the research team at the University of Cambridge, who are restudying the Burgess Shale fauna.

## The Gallery

When plans for a new Gallery of Invertebrate Palaeontology were halted pending decisions about Museum



expansion, a major three-month effort by everyone in the department produced a 200-page plan for the Introductory Gallery, adapted to the present physical structure within the gallery. A decision on which of the two plans to proceed with awaits the detailed disposition of gallery space in the expanded Museum.

### Field Work

Collection for the projected gallery displays proceeded apace. In addition to the Burgess Shale party, Dr. von Bitter and John Monteith collected Devonian and Carboniferous fossil plants in Atlantic Canada. Dr. Collins and Huibert Sabelis collected Cretaceous rudist molluscs in Jamaica, and Robert Barnett, David Rudkin, Jim Wheeler, and Sean Peake collected a representative Devonian fauna from the Arkona-Thedford area of southwestern Ontario.

### Meetings

Dr. von Bitter presented a paper at the 8th International Carboniferous Congress in Moscow in September, and took part in field trips to the southern Urals and the Moscow region, where he made considerable collections of both macro- and micro-fossils. He also attended the annual meeting of the north-central section of the Geological Society of America and the Pander Society in Kalamazoo, Michigan, in April.

The Eastern Canadian Palaeontology and Biostratigraphy Seminar was held at the ROM on November 21 and 22. The meeting was jointly coordinated by Dr. von

Bitter and Dr. Geoffrey Norris of the University of Toronto, with the assistance of Dr. Collins. Attendance was over 100, the palaeontologists coming mostly from Ontario and Quebec, but some from Atlantic Canada and Saskatchewan. Six of the 16 papers were presented by ROM scientists.

Robert Barnett, David Rudkin, and Jim Wheeler attended the Geobotany Conference at Bowling Green State University, Ohio, in February.

### The Collections

Renewal of the catalogue assistance grant from the National Museums Policy Committee provided support for further cataloguing of the collections onto computer tape. Early in the year, the system changed from the in-house PDP-8 to a remote terminal to the University of Toronto Computer Centre. This allows for full-time input of the collection data, so that the backlog is being rapidly reduced.

### Appointments

Dr. Peter von Bitter was appointed Associate Professor in the Department of Geology at the University of Toronto. Dr. Bruce Haugh of Erindale College and Dr. Glen Merrill of the College of Charleston, South Carolina, were appointed Research Associates.

### Publications

Four Life Sciences Contributions devoted to invertebrate fossils were published during the year: no. 106 by Barnes



ROM party picking over talus dump of Burgess Shale, Yoho National Park, British Columbia. Mt. Wapta in background.



and Slack, no. 108 by von Bitter and Merrill, and no. 109 by von Bitter are on conodonts; no. 107 by Dr. Madeleine Fritz is on Bryozoa.

At the Palaeontology and Biostratigraphy Seminar, Dr. Collins presented a paper on "Ontario's first biostratigrapher, J.J. Bigsby"; Dr. von Bitter presented "Palaeoecology and biostratigraphy of Lower Carboniferous (Windsor Group) conodonts, Atlantic Provinces, Canada". In Moscow Dr. von Bitter and G.K. Merrill jointly presented a paper on "Evolution of Carboniferous conodont communities: Conodont biofacies through time".

### Teaching

Dr. Collins helped supervise a graduate student and presented lectures at the University of Toronto and McMaster University. Dr. von Bitter likewise helped supervise a graduate student and presented lectures at the University of Toronto and the University of Waterloo.

### Public Activities

Dr. von Bitter encouraged the establishment of the Parks Palaeontological Society for interested amateur fossil collectors in the Toronto area. He is now adviser to the society.

Members of the department led field trips and gave lectures to museology classes, to the Parks Palaeontological Society, to the Junior Field Naturalists, to the Saturday Morning Club, and to a Cub Scout pack.

During 1975 the museumobile "Fossils of Ontario" visited over 200 schools, libraries, and festivals in Ontario. It was viewed by over 27,000 students and members of the public.

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## Department of Mammalogy

### Dr. R.L. Peterson, Curator-in-Charge

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Our activities covered many diverse areas this year. Dr. Peterson continued as Chairman of the Animal Care and Research Committee, as a Director and member of the executive committee of the Metropolitan Toronto Zoological Society, as Director of the Toronto Anglers' and Hunters' Association, and as a member of the Board of Directors and Chairman of the Honorary Membership Committee of the American Society of Mammalogists. He also represented the ROM in the Association of Systematic Collections. In February, he gave a talk to the "Ethics of Collecting" panel. Although on sabbatical most of the year, Dr. Tamsitt served on the ROM

Curatorial Promotions and the Library committees.

Ms. Eger and Mr. Nagorsen coped with the multitudinous tasks involved in dealing with the collections. Ms. Eger conducted tours of the department for the Saturday Morning Club, the Members' Committee, and several groups during Teachers' Night in October. Curatorial staff were present for the ROM Open House in March, when aspects of departmental activities were displayed to visitors. During the year, we identified several skins, furs, and mammalian parts to enable customs officials to determine whether they represented species now prohibited entry into Canada.

Research Associates contributed greatly to our activities. We were pleased that Dr. Valdivieso received a Latin American Teaching Fellowship and a Senior Fulbright-Hays Fellowship for teaching and research in Colombia.

### Collections and Acquisitions

Acquisitions increased by 1,425 specimens, the majority the result of field research by staff in Ontario, the Yukon, and Colombia.

This year 4,900 additional records were stored on computer tape by Mrs. P. McGann and Ms. L. Lortie, and file cards and labels for specimens were automatically produced.

### Exhibitions

From October through March the ROM's outside showcases contained a departmental exhibit about bats. The



David Nagorsen preparing specimens in the Yukon.



department was again represented at the annual Canadian National Sportsmen's Show in March.

The Ontario insectivore and bat display is almost completed and work on a new Ontario rodent case has begun. New labels were installed in the south gallery in May.

### Teaching and Lectures

The mammalogy course (Zoology, 466 / 1019) was given by Dr. Peterson, who is cross-appointed as a Professor at the University of Toronto. As a Senior Fulbright-Hays Fellow and Visiting Professor of Biology, Dr. Tamsitt taught three graduate-level courses in Spanish at the Javeriana University, Bogota. In July, he gave a seminar at an orientation programme for Colombian Fulbright grantees at Melgar.

Dr. Valdivieso, a Visiting Professor of Microbiology at the same university, gave four courses for graduate students. He also supervised thesis research for four graduate students and was a consultant to the microbiology laboratory of the teaching hospital for the Javeriana School of Medicine. In July, Dr. Valdivieso gave invited seminars at the Universidad del Valle, Cali, where he talked on the relationship of mammals and public health.

Mr. Nagorsen talked about his field work in the northern Yukon to the Brodie Club in September and also lectured to the University of Toronto forestry class (Wildlife Management 409) in October.

### Scientific Conferences

In October Drs. Tamsitt and Valdivieso attended the Second Colombian Seminar on the Teaching of Ecology at Villavicencio. In November Dr. Tamsitt attended the Tenth Colombian Congress of Biological Sciences at Bogota. Dr. Valdivieso presented an invited paper at a Symposium on Bacteriology held by the Colombian Society of Microbiology at Bogota in October and also presented a paper with Miriam Escobar at the annual Colombian Congress of Bacteriology held at Cucuta in November.

In September, Dr. Peterson gave a talk on moose at the 51st National Conference of the American Association of Zoological Parks and Aquariums.

Drs. Peterson and Fenton and Ms. Eger attended the Sixth Annual North American Symposium on Bat Research in October at the University of Nevada in Las Vegas, where Ms. Eger presented a paper and Dr. Fenton chaired a session and also gave a paper. In May, Dr. Peterson again represented the ROM at the fourth annual meeting of the Association of Systematics Collections at Virginia Polytechnical Institute and State University, Blacksburg, and in June attended the annual meeting of the American Society of Mammalogists at Texas Tech University, Lubbock.

### Research and Grants

The principal field research of the year was conducted in July and August by Mr. Nagorsen, who participated in the North Yukon Research Programme, a long-term University of Toronto project. Mr. Nagorsen and Ms. Eger collected small mammals in the Beverly Swamp, Wentworth Co., and the Ellice Swamp, Perth Co., in September. As the first phase of a long-term project initiated by the department to survey the mammals of Ontario, Mr. Nagorsen, accompanied by Dr. R. James, conducted a preliminary survey of the mammals of the Rainy River District in May. The purchase of a field vehicle in June will greatly facilitate our provincial research.

After his sabbatical last year, Dr. Peterson concentrated on his multivariate studies of bats of the Old World genus *Miniopterus* and studied collections at the National Museum of Natural History, at the American Museum of Natural History, and at the British Museum (Natural History). With Dr. A.J. Baker and Ms. Eger, he continued his work on Arctic hares, and with Mr. Nagorsen, published data on chromosomes of bats from the Dominican Republic.

Drs. Tamsitt and Valdivieso continued their studies in Colombia and collected in the Eastern and Central Andean Cordilleras in June through August. Dr. Valdivieso also conducted field research in the region of the Western Andean Cordillera in July. In March, Drs. Valdivieso and Tamsitt were in Atlanta at the Center for Disease Control, to isolate micro-organisms pathogenic to humans.

Dr. Valdivieso and Dr. Peterson continued their research on the anatomical structures of bats; a manuscript on the basisphenoidal pits of the Old World bat *Otomops martiensseni* is nearing completion. Ms. Eger continued her study of the mastiff bat *Molossus molossus* and studied collections of this species at the University of Michigan. Her monograph on the systematics of bats of the genus *Eumops* is nearing publication.

Dr. Fenton conducted field research in New Hampshire and Nova Scotia in July and at the Nicolle Institute of Wild Life Research in Rhodesia in January and February. He also studied bat behaviour at the Rockefeller University Field Research Center at Millbrook, N.Y., from March through July.

Curatorial staff and Research Associates were authors of nine publications. Grants from the National Research Council of Canada to Drs. Peterson and Tamsitt, and from the Explorers' Club to Ms. Eger, helped to support research activities. A grant from the Canadian National Sportsmen's Show to Dr. Peterson makes possible intensive field research in Ontario.



## Department of Mineralogy and Geology

S.B. Lumbers, Curator-in-Charge

This is the first year of operation for the combined department. Dr. Mandarino was Curator-in-charge until December 31, 1975, when he began a six-month sabbatical leave. Dr. Lumbers was appointed Curator-in-charge from January 1, 1976.

The installation of the new geochronology laboratory involved considerable construction. The X-ray laboratory in the mineralogy area was re-arranged to provide extra office space, and the geology collections were moved to allow for the construction of the geochronology laboratory and the installation of the mass spectrometer. The geobotany laboratory was relocated in more spacious quarters with only a slight disruption of the research projects.

### Research and Field Work

Dr. Mandarino and Mr. Sturman continued their work on the phosphate minerals from the Yukon Territory, which they visited early in the summer of 1975. This work resulted in the description and approval of four new species. One of these, kulanite, has been published, while another is in press. Dr. Mandarino has two papers in press. Mr. Sturman continued to develop a new search index for X-ray identifications of minerals, supported by a grant from the Joint Committee on Powder Diffraction Standards. He also published a paper with Dr. J. Gittins of the University of Toronto on a new mineral, agrellite, and collaborated with colleagues in Ottawa on another new mineral.

Dr. Wicks continued his studies of the Asbestos Belt in the Eastern Townships of Quebec. He published two major papers concerning the Serpentine Group of minerals, one of them with Dr. E.J.W. Whittaker, Reader of Mineralogy at Oxford University, who gave a lecture on four-dimensional symmetry while he was a guest of the Royal Ontario Museum.



The Ontario Minister of Natural Resources, The Hon. Leo Bernier presents a cheque to be used to establish a geochronology laboratory to the Royal Ontario Museum. Left to right: The Hon. Leo Bernier, G.D. de S. Wotherspoon, Dr. J.K. Reynolds (Deputy Minister of Natural Resources, Ontario), Dr. J.E. Cruise, Dr. W.M. Tovell, Dr. J.A. Mandarino, and Dr. S.B. Lumbers.



Dr. Mandarino continued to prepare abstracts of new minerals for *The American Mineralogist* and Dr. Gait has been abstracting *The Canadian Mineralogist* for *Mineralogical Abstracts*.

Dr. Lumbers spent the summer of 1975 and May and June of 1976 in the field, continuing his research on the Grenville Geological Province. One of his research projects concerned an unusual occurrence of omphacite from a nepheline syenite. He conducted field trips for geologists of the Ontario Division of Mines and for 17 Saudi Arabian geologists.

Drs. Krogh and Nunes collected rock specimens in northern Ontario for age dating in the geochronology laboratory.

### Research Associates

Mr. G. Grant Waite continued to give his invaluable help in describing and cataloguing the new gemstones of the collections. Mrs. Violet Anderson produced more of her excellent photomicrographs, some of which were exhibited in the third-floor Rotunda. Dr. Satterly, having completed his detailed study of the localities of the Ontario minerals in the ROM collections, is now preparing it for publication. Dr. Paul Nunes participated in several field trips in Ontario and also in the Geotraverse Conference sponsored by the University of Toronto.

### The Collections

About 450 specimens were registered into the mineral collections. Among these are 19 species not previously represented in the collections, including four *type* specimens — namely barićite, falcondoite, kulanite, and palladobismutharsenide. Other details of acquisitions during the year may be found in various issues of *Rotunda*. As usual specimens were acquired by gift, exchange, purchase, and collecting. We are grateful to the many donors of specimens. Additions to the geological collections included suites of carbonatites collected by Dr. Lumbers in Brazil and Ontario, suites of rocks collected from the Grenville Province, and some suites received by donation.

### Conferences, Meetings, Lectures, and Teaching

At the annual meeting of the Geological and Mineralogical Associations of Canada, Drs. Lumbers and Mandarino both presented two technical papers, and Dr. Krogh and Mr. Sturman both presented one. Dr. Mandarino gave his presidential address to the Mineralogical Association of Canada and chaired a session in the Symposium on Garnets.

Dr. Wicks and Dr. Lamarche presented a paper at the Third International Conference on Asbestos in Quebec City, and Dr. Wicks attended a Penrose Conference on sulphide deposits in Ely, Minnesota. Dr. Krogh attended a meeting of the American Geophysical Union in Madison, Wisconsin, a Penrose Conference in Boulder, Colorado, and a seminar at the International Symposium

on Heavy Metals in the Environment. Dr. Lumbers gave an invited lecture to the Central Canadian University Geological Conference at Laurentian University in Sudbury. He also gave a paper at the International Symposium on Carbonatites in Brazil and chaired one of the sessions.

Dr. Mandarino helped to organize a course in gem identification for the Metropolitan Toronto and Peel police forces, the OPP, and the RCMP, and lectured to them on coloured gems. He also gave the first lecture in the series organized in preparation for the "Gold for the Gods" exhibition. Dr. Wicks gave an invited lecture on thermal analysis to a graduate course at the University of Toronto, and lectured on clay minerals in the ROM extension course "Ceramics for the Collector". Mr. Sturman conducted a seven-session course for geologists from the Ontario Division of Mines on the use of the Universal Stage.

### Museum and Public Service

The staff gave talks and prepared exhibits for a number of amateur mineral societies and other groups, and over 160 specimens from the reference collections were loaned for research purposes.

### Honours and Appointments

Dr. Mandarino completed his third year as President, and Dr. Wicks, his second year as Secretary, of the Mineralogical Association of Canada. Dr. Mandarino was invited to give the inaugural address at the opening of the Earth Science section of the Morris Museum of Arts and Sciences in Morristown, New Jersey. Dr. Lumbers continued to serve on the Sub-committee on Precambrian Stratigraphy of the International Union of Geological Sciences. Dr. Krogh was cross-appointed as a Professor of Geology at the University of Toronto. Dr. Gait continued as President of the Mineral Museums Advisory Council and became subscription manager for the Mineralogical Association of Canada.

Drs. Lumbers and McAndrews were promoted to the rank of Curator, Dr. Wicks to the rank of Associate Curator, and Mr. Sturman to Research Mineralogist.

Dr. Thomas Krogh was appointed Associate Curator with responsibility for the ROM's part of the operation of the geochronology laboratory. Dr. Paul Nunes was appointed a Research Associate and was made responsible for the Ontario Division of Mines' share of the operation.

### Geobotany Laboratory

Dr. McAndrews joined the Laval University Archaeological Expedition to northern Quebec where he and others collected a lake sediment core. An expedition to Florida, with Dr. Edmund of the Department of Vertebrate Palaeontology, resulted in the collection of pollen-bearing sediment from a Pleistocene faunal site containing both mammoth and mastodon. This work was the topic of a



public lecture given by Dr. McAndrews in the Science Lecture Series.

Mr. Cwynar completed a M.Sc. thesis on the fire history of Algonquin Park. Mrs. Gold, a museology and botany graduate student, is preparing a thesis on the vegetational history of Arrowhead Park. Several pollen diagrams were completed: Berry Lake near Hastings by Mr. Slater, Arrowhead Lake near Huntsville by Mrs. Gold, Jarvis Lake near Paris and a peat bog near Norman Wells, N.W.T., by Mr. Adams. Ms. Manville, supported by the National Research Council, is working on moss macrofossils and is preparing and editing manuscripts of other work completed in this laboratory. Mr. Fecteau has undertaken the identification of charred wood and seeds from several Ontario archaeological sites.

Mrs. Siddiqi concentrated and identified 230 samples of fossil seeds from Ontario and Quebec and added 170 pollen reference samples to the collection. Samples of the modern pollen rain were also added to the collection: 35 from northern Canadian localities were supplied by the Atmospheric Environmental Service and 73 from Alberta localities were purchased.

Dr. McAndrews, assisted by Mr. Slater, taught two undergraduate and one graduate botany course at the University of Toronto. Dr. McAndrews conducted guest lectures, laboratories, and field trips for two other University of Toronto courses. With the assistance of Mr. Slater and Mr. Fecteau, he also taught an archaeobotany course to members of the Ontario Archaeobotany Society. Dr. McAndrews served on the National Research Council Associate Committee on Quaternary Research. He also received a grant from the Ontario Heritage Foundation to produce a handbook of Ontario archaeobotany in collaboration with Mr. Fecteau and Miss Hick.

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## Department of Ornithology

J.C. Barlow, Curator

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Participation by staff members in a wide variety of Museum activities, as well as the usual emphasis on public service and research, characterized our programme during the past year. Research highlights included field work in India on mynahs and the divination in Ontario of trenchant differences in the foraging behaviour of the closely sympatric Willow and Alder flycatchers.

Other field work took staff members to French Guiana, the southern and central United States, Alberta, British Columbia, Manitoba, Saskatchewan, and Ontario.



Yellow-headed blackbird, an uncommon breeding bird in extreme western Ontario.

Species studied included, besides those already mentioned, vireos, orioles, emberizid finches, and European Tree Sparrows.

In the Museum, Dr. Barlow conducted phenetic studies of vireos, *Passer* and *Empidonax*, and worked with Dr. James and Dr. Peter McLaren readying the annotated checklist of Ontario birds for publication. Drs. Barlow and James published a major paper on the Chestnut-sided Shrike-vireo, and Dr. James continued work on the vocalizations and behaviour of Yellow-throated and Solitary vireos and published a major paper on foraging strategies of three vireos in Ontario. Dr. A.J. Baker studied geographic variation of proteins in mynahs and phenetics of arctic hares and House Sparrows. He published three major papers during the year, including an important study of lipid levels in the New Zealand South Island Pied Oystercatcher. J.A. Dick, Curatorial Assistant, continued work on osteological characteristics of bones distinguishing genera of birds.

Research Associates played an important role in departmental research activity. Dr. R.I.C. Hansell continued work on strategic models in evolution. Rev. R.C. Long acquired more field data in his long-term study of the American Robin. He also had published the final installment of the birds of Nsanje District, Malawi. Dr. G.K. Peck, who became a Research Associate in December,



produced the 12th annual Ontario nest records scheme report and with his son Mark prepared a report on an ornithological survey of the Ontario Hydro site at Beverley Swamp, Flamborough Township, Hamilton-Wentworth R.M. Dr. J.D. Rising continued his long-term study of phenetic variation in Savannah Sparrows and published an article on temperature regulation in birds in a book on animal biometeorology. Dr. H.G. Savage again identified vertebrate remains from a number of sites, including Yuquot, B.C. He published several papers, including an important article on a palaeopathological amerind skull from Saskatchewan.

### Public and Museum Service

Dr. Baker served as secretary of the National Inventory Committee. He was in charge of a data storage and retrieval demonstration at the ROM in December and of a National Inventory needs analysis meeting in January. Also in January he became associate editor of ROM Life Sciences publications. In March he put on an oyster-catcher research display for the ROM Open House. Dr. Barlow finished a term as associate editor of the Life Sciences publications in December. At the ROM Open House he put on a demonstration of *Empidonax* flycatcher research. He served on the Collection Committee and the Membership Committee for the American Ornithologists' Union and the Edwards' Prize Committee for the Wilson Ornithological Society. Dr. James served as Secretary of the Science Curators' Council and as Chairman of the Ontario Records Committee. He also supervised the display "Gardening for Birds" at the spring Flower and Garden Show. Dr. Savage was elected President of the Ontario Archaeological Society for 1976.

### Meetings and Grants

Drs. J.C. Barlow and R.D. James attended the 93rd meeting of the American Ornithologists' Union at Winnipeg, Manitoba, in August, jointly presenting a paper entitled "Quantitative assessment of mensural characters of sympatric populations of Traill's flycatchers in Ontario". In September they spoke on "*Empidonax* flycatcher biology" to the Brodie Club. In October Drs. Barlow, Hansell, and Rising attended the 10th Numerical Taxonomy meeting in Montreal. In March Dr. Baker gave a seminar at Dalhousie University entitled "Geographic differentiation in vertebrate populations". With Drs. Barlow and James and Mr. Dick, he attended the first annual Ontario Ornithologists' meeting at Queen's University, Kingston. Dr. Barlow spoke on "Phenetic assessment of skeletal characters of German and Illinois populations of the European Tree Sparrow". Dr. Baker talked about "Differentiation in New Zealand House Sparrows"; and Dr. James gave a talk on the "Ontario Checklist".

In April, Dr. Baker talked to the Brodie Club on "Arctic hare taxonomy", and Dr. Savage gave a talk entitled "Human tissue preserved 3,000 years in Ontario" to the

Ontario chapter of the Archaeological Society. Later he attended the annual meeting of the Canadian Archaeological Association at Winnipeg and spoke on "The role of the Ontario Archaeological Society in Ontario archaeology". In May Colin Rice attended the annual meeting of the Canadian Museums Association at Kingston, and in June Dr. Baker attended the annual meeting of the Canadian Society of Zoologists in Regina. Colin Rice was the Museum's representative at the Wilson Ornithological Society meeting held in June in Ithaca, New York.

Dr. Savage received a Canada Council grant in support of studies of faunal material from Yuquot, B.C.

Dr. Baker received a three-year grant from the National Research Council of Canada for the study of phenetic and protein variation in mynahs. Dr. Barlow was awarded a one-year grant from the National Research Council for the study of evolutionary rates in selected passerines.

### Teaching Programme

Dr. Baker was cross-appointed to the Department of Zoology, University of Toronto, as Assistant Professor; with Dr. Hansell he taught the course Numerical Methods of Classification (Zoology 1040). Dr. Barlow, as Associate Professor, again taught Zoology 467 / 1020 (Systematic Ornithology) based on the ROM's study collection. He supervised the research of two M.Sc., one M. Museology, and four Ph.D. candidates. Dr. Savage taught a graduate course in faunal archaeo-osteology and an undergraduate course in faunal analysis in Anthropology at the University of Toronto. Dr. Rising, who is on the Zoology staff at the University of Toronto, supervised the graduate research of two Ph.D. candidates working on polygeny in Lark Buntings and evolutionary rates in leopard frogs.

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## McLaughlin Planetarium

Thomas R. Clarke,  
Associate Curator-in-Charge

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The past year has been one of changes, new beginnings, and surprises. After guiding the Planetarium for over nine years, Dr. Henry C. King stepped aside as head of the department and Dr. Thomas R. Clarke became Associate Curator-in-Charge on January 1, 1976. Dr. King has been responsible for the Planetarium since the early stages of planning and construction, and his philosophy and standards have stimulated the development of the staff and programmes to the high level evident today. He is now devoting the major part of his time and energy to the publication of his research and to his continuing interest in the subject of time and time-keeping.



With the appointment of Mr. Timothy R. Clark as Music Arranger, the team required to produce first-class audio-visual presentations was finally completed. The results of Mr. Clark's talents are already drawing favourable comments from our audiences.

Among the unfortunate surprises of the year was the flood of September 22, 1976. A broken water main just outside the foundation wall flooded the basement to a depth of 14 inches. Because of the resulting damage, the building had to be closed for a week and the production of a new show was delayed. Through the efforts of Mr. Michael Giovinazzo, photographer, and Mr. Carlos Gomes, plant engineer, the Planetarium has made a full recovery from the effects of the flood.

### Star Theatre Programmes

In the summer of 1975, two programmes were being offered in the Theatre of the Stars: a Planetarium production, dealing with astronomical topics, and Laserium, a pure entertainment show.

Three new public shows were produced in the past year: "Destiny", written by Robert J. Ballantyne; "Fire in the Sky", written by Thomas R. Clarke and William T. Peters; and "Space, the Final Frontier", written by Robert J. Ballantyne. "The Christmas Star" was brought back again as a Planetarium Christmas tradition.

Three programmes were run for elementary and high-school students: "Getting to Know the Sky" (Grades 3 to 6), written by William T. Peters; "Mars, Profile of a Planet" (Grades 7 to 10), prepared by Thomas R. Clarke; and "Special Lecture / Demonstration" (Grades 11 to 13), given by the curatorial staff.

### Laserium

Laserium came to the Planetarium in June 1975 and was well received by the public. By the end of the calendar year, attendance approached 120,000. The Laserium equipment and show are provided by contractual agreement with Laser Images Inc. of Van Nuys, California.

### Other Events

In cooperation with the Astronomy-for-Campers Group, a day of displays, slide presentations, and star shows was held on July 21, 1975. Special programmes were provided for the Saturday Morning Club, the Toronto Power Squadron, astronomy clubs of Metro high schools, and the Institute of Electronic and Electrical Engineers. On May 17, a press reception was held in the Planetarium to mark the publication of Dr. Helen Hogg's book, *The Stars Belong to Everyone*.

### Show Production Highlights

Virtually every new show in the Planetarium brings some new effect or technique. In "Destiny", actor



Aftermath of the Planetarium flood of September 22, 1975: the photography studio.



Robert Christie appeared on film as a narrator. For "Fire in the Sky", Mr. William Ireland constructed two large models, one of a space ark and one of a proposed space colony. By varying the lighting and angle of view, Mr. Michael Giovinazzo was able to produce very effective slide material. "Space, the Final Frontier" required a veritable multi-ring circus of slide projectors and a trip to Washington, D.C., to obtain film footage of Skylab. A new technique of masking motion pictures by a second film was mastered, and Mr. Lothar Kistritz perfected the use of two continuous loops, one for the pictures and the other for the mask. Using a new air-brushing technique, Mr. William Ireland produced startling improvements in the masking of nebulous objects. A small laser and fibre optics are now being used in special effects.

### Maintenance and Development

After nearly eight years of operation and almost two million visitors, the Planetarium is showing signs of wear. A \$5,000 renovation of the display section and a major refurbishment of the Star Theatre are now underway. Funds for this work are provided by the McLaughlin Endowment.

In the spring, the Planetarium took possession of a PDP 11 / 10 mini-computer with industrial subsystem. It is now being programmed by Planetarium staff to control special effects.

### Attendance

Public show attendance for the calendar year 1975 showed a decrease from 1974. However, school attendance, which fell in 1975, is showing a marked improvement in 1976. There were 274 school shows attended by 4,862 teachers and 58,650 students. In addition, there were 12 lecture demonstrations in the Star Theatre for about 1,000 university students from six institutions.

### Other Activities

Dr. King has completed the typescript of his book *Geared to the Stars* which has been submitted for publication. His research this year took him to Paris, Strasbourg, and Munich. As part of the commemoration of the Tercentenary of the Royal Observatory, Greenwich, Dr. King presented an invited paper "Instrumentation of the 19th and 20th centuries". Other lectures were given to the National Association of Watch and Clock Collectors, as part of the ROM Gold Lecture Series, and through "Exploration of the Universe", a course offered through the University of Toronto Department of Extension.

Mr. Norman Green continued to give his eight-week course "Introductory Astronomy", with both a fall and spring session. His work with the members of the Tour Committee enabled them to maintain a high standard of tours in the Planetarium display. He also gave 11 popular addresses on astronomy and the Planetarium to outside organizations. Mr. Green represented the

Planetarium at the Halifax General Assembly of the Royal Astronomical Society of Canada.

During the last week of August 1975, Mr. Robert Ballantyne and Mr. William Peters organized the convention of the Planetarium Association of Canada. Mr. Ballantyne appeared a number of times over the past year on CKVR Television (Barrie) and as a regular guest on CBC radio. He also addressed an annual workshop of the Ontario Camping Association on developing astronomy in day camps as part of overnight programmes. Mr. Ballantyne and Mr. Peters continued to offer their unique course "Introduction to Observing" through the Royal Ontario Museum Extension Services.

Mr. Peters is carrying on with his studies in the Institute for the History and Philosophy of Science and Technology. In December he addressed the Toronto Centre of the Royal Astronomical Society of Canada on "Galileo's Telescopes". Both Mr. Green and Mr. Peters are assistant editors of the national newsletter of the Royal Astronomical Society of Canada.

During the past year, Dr. Thomas Clarke was an instructor in Woodsworth College, University of Toronto.

Cooperation continues with the Toronto Centre of the Royal Astronomical Society of Canada who use the Planetarium facilities for regular meetings and study sessions. The efforts of the RASC in promoting public understanding and appreciation of astronomy are considerable. The Planetarium is pleased to offer its continued support and thanks to members of the Toronto Centre.

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## Department of Vertebrate Palaeontology

### C. McGowan, Associate Curator-in-Charge

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This was an eventful year. Dr. A.G. Edmund and Dr. C. McGowan exchanged administrative roles in order to enable Dr. Edmund to devote more time to his researches. Dr. C.S. Churcher was appointed Associate Dean of the Faculty of Arts and Sciences of the University of Toronto, and we welcomed Dr. Robert Reisz of Erindale campus, who joined us as a Research Associate. Dr. Reisz's research interests lie in the early reptiles, and his extensive knowledge of the subject is a valuable asset to the department.

Five new Field Associates were appointed, all from Florida: Mr. and Mrs. William Brayfield, Mr. and Mrs. Roy Burgess, and Mr. O.D. Hazeltine.

### Research and Publications

Dr. Edmund pursued his interests in the extinct giant





Gordon Gyrmov, Chief Technician, paints a fibreglass cast of ROM's unique dinosaur specimen, *Parasaurolophus Walkeri*.

ground sloths and armadillos and has examined specimens of *Chlamytherium* in several museums in the U.S.A. and Mexico. His studies confirmed the supposition that the animals evolved in Florida from immigrant South American ancestors. In January he visited Florida and examined a recently discovered skeleton of the ground sloth *Eremotherium*. He returned to Florida in May to complete his studies. Dr. McGowan completed a manuscript on the ichthyosaurs of the famous Holzmaden quarries of southern Germany. These ichthyosaurs, which lived some 180 million years ago, are noted for their superb preservation, and many have the body outline preserved as a thin film of carbon. In some cases complete embryos can be seen within the body cavity, and at least one of these maternal specimens died in the act of giving birth. This work was supported by National Research Grant No. A9550.

Dr. L.S. Russell submitted a manuscript for publication on the Cretaceous and Tertiary marsupials, in preparation of a paper on their evolution and dispersal, to be presented at the International Geological Congress in Australia during the summer of 1976.

Dr. Churcher wrote a chapter on the fossil horses and giraffes for a forthcoming book on African mammals of the Cenozoic. He also published an account of a fossil bear which was found at Woodbridge, Ontario. In May he visited Washington to consult with the *National*

*Geographic Magazine* on the search for sites of early man in the Yukon / British Columbia corridor.

### Meetings

Drs. Churcher, Edmund, McGowan, and Russell attended the annual meeting of the Society of Vertebrate Palaeontology at Harvard, and each gave a paper. Dr. McGowan was invited by the Royal Society of Edinburgh to attend a meeting in Britain on the Loch Ness phenomenon. He subsequently attended two further meetings held at the Massachusetts Institute of Technology to plan the summer expedition to the loch. Dr. Churcher attended an archaeological and palaeontological meeting at the Texas Technical University.

### Public and Museum Service

There was an increased demand for 35mm colour transparencies, particularly of our mounted dinosaurs and of artists' reconstructions of these specimens, from professional colleagues, public institutions, television stations, school teachers, and interested amateurs. In response to these requests we have initiated a programme, in conjunction with the Department of Extension Services, to set up slide kits for teaching purposes, covering a range of topics in vertebrate palaeontology. Slides of dinosaurs and other Mesozoic reptiles in our gallery were prepared for sale at the ROM Book and Gift shops. Requests for specimen loans also increased, both from other museums and from educational institutions



within the province. A wide variety of specimens were identified for the public. These specimens ranged from historically recent animals excavated in neighbourhood ravines, to oreodont skulls from the Oligocene of Nebraska.

The department hosted the year's science lecture series, "A new look at old bones". The series of five lectures was given by Museum staff and Research Associates on various aspects of vertebrate palaeontology. Dr. Edmund was appointed to the Life Sciences Editorial Committee. Dr. McGowan gave several lectures on the Loch Ness phenomenon in Toronto and in other parts of the province. He also participated in radio and television interviews on the subject.

### Teaching

We welcomed Mr. David Weishampel, an M.Sc. student who joined Dr. Edmund to work on the functional anatomy of the crest of the dinosaur *Parasaurolophus walkeri*. Dr. Edmund taught a course in advanced palaeontology at the University of Toronto. Dr. McGowan supervised one graduate student, who is completing a Ph.D. thesis on ichthyosaurs; he also taught a course for Biology 110. Dr. Churcher continued to supervise two graduate students, and also continued teaching his vertebrate palaeontology course with Dr. T.S. Parsons and Dr. McGowan. Dr. Russell taught his course on the geological record of evolution at the University of Toronto.

### The Collections

The storage facilities in the preparation laboratory were completely renovated with the installation of a metal rack and pallet storage system. The laboratory has also been completely renovated, thanks to our technical staff, Mr. G. Gyrmov, Mr. R. Zimmerman, and Mr. D. Fisk, who did much of the planning and work. With the laboratory facilities completed, we returned to our preparation programme, and work commenced on a fine plesiosaur specimen which was collected from Morden, Manitoba, last summer.

Another cast of our unique dinosaur, *Parasaurolophus walkeri*, was completed and exchanged for specimens with the University of Kansas. A selection of Paleocene mammal teeth from San Juan Co., New Mexico, was obtained from Mr. R.P. Ratkevich of Albuquerque, in exchange for photographs of dinosaurs in our gallery. Specimens presented to the department included the tusk of a juvenile mammoth from Mr. Alec Turner of Appleby College in Oakville, Ontario, and a collection of marine mammal bones from a Miocene phosphate quarry in Maryland (donated by Dr. Frank Whitmore of the U.S. Geological Survey and the USNM). Two collections of Pleistocene fossils of Florida were obtained by purchase, and many other Florida specimens were donated by our field associates. More than 1,000 specimens were added to the catalogued collection.

### Field Work

Work during the summer of 1975 on the Cretaceous marine reptile site, near Morden, Manitoba, was hampered by heavy rains and frequent break-downs of equipment, along with a scarcity of fossils. During the New Year break, Dr. Edmund, together with Dr. J. McAndrews of the Department of Mineralogy and Geology, surveyed and excavated some Pleistocene sites in Florida. At the beginning of May, Dr. Churcher was invited by the Government of Nicaragua to visit an "early man" site dated at between 27,000 and 30,000 years B.C. The remains of animals found included a giant ground sloth, *Mastodon*, a horse, and a tortoise, and the presence of man-made tools suggested that this was a butchering site. Dr. Russell spent the summer of 1975 in Alberta and Montana collecting specimens of Lower Cretaceous age.

In late May, Dr. Edmund left again for Florida to continue his investigations of the new Pleistocene sites. He returned to Toronto in early June to lead a field party to Kansas to collect fossils from the famous Niobrara chalk deposits. Dr. McGowan left for Loch Ness at the end of May to participate in a joint investigation of the phenomenon with other specialists from institutions in the U.S.A. and Britain.



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## Library

J. Dick, Head Librarian

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This year has seen a significant breakthrough for the ROM Library. As the Museum re-examined its philosophy and defined its goals for the future, in preparation for the proposed expansion, the importance of the Library as an essential support for Museum work came much more clearly into focus than before. As a result the Library has achieved a closer administrative association with the scholars and researchers of the Museum, while the implementation of the new organizational design has resulted in better control and a firmer sense of direction. A clear channel of communication has been opened which is allowing us to push forward our efforts to develop an information service and to tailor it precisely to the needs of Museum staff.

### Library Committee

The Library Committee is now a wholly advisory body. This year it has spent considerable time helping us to determine which periodicals to cut, and has drafted gift and working-tool policies. At present, the committee is engaged in examining the limitations of the present library operation and the plans for library expansion.

### Acquisitions

The acquisitions section has been growing as a well-integrated unit, and from July 1, 1976, will be established as a department under Senior Acquisitions Technician, Mrs. Grace Livingstone.

Work on the subscription file was completed this year, and the file is now totally under control. Cross-references have been made, and the claiming procedure is fully established and is working automatically.

The serials record has been expanded to include all types of publications. Binding information is being added to the cards in order to facilitate preparation of materials to be bound. Binding will be done regularly, on a contract basis, when funds become available to enable us to keep up with the volume of incoming material. Gaps in basic reference sets have been filled, and all supplements brought up to date.

Answers to the questionnaires which went to our exchange partners at the end of last year have been recorded, and adjustments have been made to the exchange programme where necessary. A number of exchanges, judged inadequate by the Art and Archaeology Editorial Committee, were either upgraded or cut. A large number of outstanding claims and queries were answered. We are continuing to work on the remainder. The Publications Department has been most cooperative in supplying us with extra copies quickly and efficiently. When we have completed the work, a more compact exchange file containing accurate

information will be produced.

### Cataloguing

Our cataloguing has greatly improved this year. The *Anglo-American Cataloguing Rules* are now being given their usual interpretation in the establishment of headings and the addition of entries and references. We have just begun to implement the descriptive cataloguing rules of the revised Chapter 6 based on the ISBD (International Standard Book Description). Mrs. Pat Trunks has helped considerably by doing cataloguing derived from Library of Congress copy, in addition to her other duties. We shall continue our efforts this year to make our cataloguing conform as closely as possible to the international standard, and to make all our own practices uniform.

The whole backlog of catalogue copy has been typed. It was a tremendous job involving the cooperation of clerical and professional staff. Mr. Eugene Wilburn, who supervised the operation, very carefully and quickly checked thousands of cards in many languages for both content and typographic errors, while continuing with his own work. We hope our catalogue henceforth will always be up-to-date.

### Services

Of course all our efforts, including the operation of our technical services, are focused on providing a substantial service, and responding to our patrons' needs. While we were not able to increase our specific, individual services this year, we do encourage those who need our help to request it, and we do the very best we can to provide the needed answers.

As well as handling reference requests, we do some literature searches. Our alerting service includes scanning periodicals and publishers' catalogues and sending notices to staff of relevant material. Relevancy is judged according to interest profiles prepared by the persons concerned and updated annually. Inter-library loan continues apace. Most of our traffic is with the libraries of the University of Toronto.

### Collection Maintenance

Our oversized or folio volumes were consolidated and reorganized this year to facilitate the location of specific items, while allowing maximum use of stack space. By correcting sequence problems now, we are making things easier for ourselves in any future move or expansion.

### Staff Activities

Miss Sharon Hick attended the Canadian Archaeological Association's annual conference in Winnipeg and the Special Libraries Association's annual conference in Denver. She continues as Secretary of the Ontario Archaeological Society.



# Stream 2

## Registration and Conservation

### Conservation Department

Elizabeth Phillimore, Senior Conservator

This year was a very active if somewhat fragmented one. Over 1,000 objects received major treatment, and the flourishing lending / borrowing programme of the Museum is reflected in almost 400 working hours of condition reports done by the conservators on nearly 5,000 artifacts which moved in or out of the Museum during the year.

The interesting and ambitious projects undertaken by the department during the past year have included a variety of artifacts. The collection of Middle European Baroque material placed in the new Gallery IX required extensive conservation treatment. Many pieces of furniture and large decorative objects were treated by Susan Wilson, while ceramics repairs were carried out by George Pawlick.

A large group of 3rd-century Egyptian (Meroitic) pieces received extensive treatment from Carol Jack and Gillian Moir. These included small iron implements, bronze bowls, cosmetic tools, and jewellery. In charge of the project and also working on the material was Mark Burnham, a former member of the department. Carol Jack also spent many hours cleaning a magnificent Graeco-Roman laurel wreath of silver and gold foil.

Remounting a table-top sized Persian mosaic panel was a lengthy and difficult job undertaken for the West



Eva Burnham conserving a fragile *tiraz* textile fragment.

Asian Department. The project involved removing and replacing a heavy plaster backing. From Egypt came a large number of fragile *tiraz* textile fragments, which Eva Burnham cleaned, blocked, and mounted, using techniques developed especially for this material.

Early in the summer, Elizabeth Phillimore, paintings conservator, completed the restoration of Benjamin West's massive "Death of Wolfe", prior to its being lent to the National Gallery of Art in Washington, D.C., for the Bicentennial exhibition "The Eye of Jefferson".

#### Training and Seminars

Training was an important part of the department's activities during the year. Two interns from the Queen's University Master's Programme in Art Restoration and Conservation gained practical experience; a conservation technician student from Algonquin College spent six weeks in our main lab learning to work with various materials; and a curator of artifacts for the Edmonton Parks and Recreation Department spent several weeks learning the basics of preventative conservation.

Bernard Leech and George Pawlick gave lectures and demonstrations for the extension course "Ceramics for the Collector", which included information on the materials and manufacture of ceramics, and simple repairs. Mr. Leech was also involved in planning a proposed symposium on the metal technology of ancient Peru.

Elizabeth Phillimore, in conjunction with the Museology Department, designed a survey system for the Ontario Association of Art Galleries which employed four museology students. During the summer she trained the students to do a complete assessment of the collections, building, security, and administrative structure of any small museum or gallery, to make recommendations for change, and to produce a written report.

#### Travel

In October, Bernard Leech attended the ICOM Conservation Conference in Venice, and went on to Budapest to see "Gold for the Gods" *in situ* in order to prepare for handling and housing this valuable material in the ROM. He also attended the American Institute of Conservation meetings in Mexico City in September 1975, and in Dearborn, Michigan, in May 1976.

Elizabeth Phillimore was granted six months' sabbatical leave from January 1, 1976, during which she did considerable travelling. In Rome she visited ICOM's Centre for Conservation and the Istituto della Restauro, where new methods are being developed for the treatment of frescoes and wall paintings. In England she spent a day at the Conservation Training Section at the Courtauld Institute and talked to the Head of Paper Conservation at the British Museum. She also visited the San Francisco Art Museum conservation section and the UCLA paintings conservation labs at Davis, California.



While in Japan, Mrs. Phillimore and the Associate Director (Curatorial), Barbara Stephen, were conducted through the Tokyo National Research Institute of Cultural Properties by Drs. Sekino and Nishikawa. It is hoped that this initial contact will grow into a conservation liaison which will assist us with our large Oriental collections. In Hong Kong she and Mrs. Stephen spent a day with Mr. Lawrence Tam, Director of the Hong Kong City Museum and a ROM museology graduate.

In April Mrs. Phillimore went to Ottawa to attend the three-day National Gallery seminar, "The Lining of Paintings — a Reassessment". In June, at the invitation of the Ontario Museum Association, she, Eva Burnham (textiles), and Susan Wilson (furniture and decorative arts) represented the ROM at one day of a three-day familiarization tour of small museum collections, along with senior conservators from the Provincial Archives of Ontario, Queen's University, and the Canadian Conservation Institute.

In September, Gillian Moir went to Anegada in the British Virgin Islands with ROM Research Associate Dr. Daniel Nelson and his diving crew to do on-site conservation on objects brought up from a shipwreck on the coral reefs. However, after a hurricane destroyed their generator, the project was abandoned for the year. In March Ms. Moir and archaeological conservator Carol Jack attended an informative discussion among museum conservators, archaeologists, and corrosion scientists on "Corrosion and Metal Artifacts" held at the National Bureau of Standards in Washington, D.C.

Ceramics conservator George Pawlick and decorative arts conservators Susan Wilson and Chris Toogood attended a weekend course in June held by the Nikon School of Photography.

Textile conservator Izabella Block-Bolten went to Peru in November with a ROM team to assist in the selection of artifacts for a supplementary exhibition to be held with "Gold for the Gods". Because of the extremely fragile nature of the Peruvian textiles, it was necessary for her to return to Peru in May to carry out some conservation and supervise the packing of the material.

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## Registration Department

### D. Hecken, Registrar

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Several changes have taken place in the Registration Department during the past few months. Mrs. Stanley, our Export-Import Manager, who has coped valiantly with an ever-increasing volume of traffic, has now been joined by an assistant, Mr. Barry McQuade, who came to us from a large Canadian brokerage firm. Our shipping and customs section is an important operation, and possibly unique on this continent. We have found that on-the-spot expertise is invaluable for our many domestic and international transactions.

The additional activity in this section is partly due to our very active loans programme, and we are fortunate to have as our new assistant for loans Mrs. Margaret Kolesar, a graduate of the ROM's museology course. She replaces Miss Marjorie Shook, who had been with the Museum for 19 years.

Our biggest single project during the past year was the "Animals in Art" exhibition, which involved loans from approximately 100 different lenders in nine countries. The numerous contractual and shipping arrangements constituted a significant additional workload for the department, which had never before dealt with such a large project.

Another change in the department has been the appointment of an Assistant Registrar, Mrs. Sonja Tanner. This has been of considerable help to the Registrar, not only in the supervision of routine functions, but also in dealing with a wide variety of additional tasks and obligations. During the past few months the Registrar has been a member of the National Inventory Task Force on the Fine and Decorative Arts in Montreal and a participant in the seminar entitled "Women in Management", sponsored by the Ontario Educational Communications Authority. She also presented the opening paper at the Museum's own seminar on "Ethics" in January 1976. The Assistant Registrar recently undertook a study trip to museums in New York to investigate new trends in the registration field, as well as to acquire some specific information on the computerization of museum records in the U.S.A.



### Art Department

David Pepper, Coordinator

It is with a certain sadness that the Art Department closes out its year. Through retirement, we have lost two highly valued, long-time members of the Museum's "family".

Terry Shortt, our Chief Artist, has been with the Museum for 46 years and has worked in many capacities for the Life Sciences departments. As the Chief of Display Biology, he originated and successfully carried out the fine series of ecological dioramas on display in the third-floor galleries. A well-recognized biologist and one of North America's top wildlife artists, Terry has always shared his extensive knowledge and mastery of techniques. Knowingly or not, he has passed on the fire of his own enthusiasm to another generation of Museum artists.

Sylvia Hahn, who worked in the Archaeology section of the ROM from 1937, joined our department in 1972. There is hardly a gallery in the Art and Archaeology

section which does not contain one or more examples of her work, whether incredibly detailed scale models, decorative friezes, or full-size murals. In our dioramas and exhibits, the touch of her hand is everywhere. Sylvia has a vast understanding of media and techniques and can find the right means of tackling any of the problems of museum display work, always with excellent results. We hope to continue drawing upon her many talents, as her time may permit.

#### "Inside Out"

A major project this year was to design and lay out "Inside Out", the exhibit of creative work by ROM staff. Julian Mulock designed the poster in Art Nouveau style, and the same design was used as the catalogue cover. Enlarged and hand-painted, it also made up the two eight-foot panels flanking the exhibit entrance. Our task was to create a pleasant and appropriate setting for 125 immensely varied items, and to do so at an absolute minimum of expense. This was achieved by the maximum recycling of existing materials and display units. One cannot mention the show without giving credit to the people from many departments who, through the Staff Association, contributed to its success. For our own part, we are much indebted to the carpenters and preparators for their efforts in carrying out our design.

#### "Animals in Art"

Terry Shortt spent much time and effort in the preparation of the highly successful exhibition, "Animals in Art". Its effects were far-reaching; letters and calls about it are still coming in. Terry gave a number of talks on the show and on related subjects during the year.

#### Science Departments

One major task undertaken for the Mammalogy Department was to execute a detailed cut-away diorama for the large three-sectioned insectivore exhibit case. A twin exhibit of Ontario rodents is now well on its way to completion. The repair and restoration of old specimens and new taxidermy work was only one facet of the project. Entire trees were built of styrofoam. Masses of authentic foliage and other accessories were assembled. Features of this exhibit include a cave filled with bats and a cross-section of mole tunnels. Many thanks are due to Sophie Poray-Swinarski of the Mammalogy Department for invaluable artistic assistance.

For the Ichthyology Department life-size fish models, part of a set illustrating luminescence, were prepared, as well as a model of the Marine Lamprey amocete.

Two hundred detailed drawings of the bones of a prehistoric giant armadillo have been done for a forthcoming Vertebrate Palaeontology publication. A unique exhibit case depicting Thomas Jefferson's career as an amateur palaeontologist was designed and prepared in honour of the U.S. Bicentennial.

For Invertebrate Zoology, a number of illustrations were



Julian Mulock's poster for "Inside Out".



produced, part of a forthcoming popular work on British flatworms. In addition, an animated film in colour was prepared to illustrate the swimming motion of water mites. Additional illustrations were made for the popular leaflet on household spiders, now in print.

A temporary display of birds and their eggs was set up for a special Ornithology presentation at the Joint Board meeting last December.

### Art and Archaeology Departments

Six of the old gallery mannequins were refurbished and clothed in authentic fur or leather garments for the new Ontario Prehistory Gallery. A wooden trencher with a realistic meal of boiled salt-pork and peas, such as a 16th-century seaman would have been accustomed to, was recreated for the exhibition "Tokens of Possession".

For the Textile Department, a series of double poster sets was designed and made up for gallery exhibits.

A set of Julian Mulock's paintings, originally done for a travelling display on the Olympics, was reproduced on ROM greeting cards.

For the two film strips prepared to introduce "Gold for the Gods", we made numerous colour illustrations, most of them depicting life in ancient Peru.

### Special Functions and Events

Members of the department gave illustrated lectures to members of FOROM on insect illustration and Japanese metalwork. Two lectures were given at the Three Schools on the role of the artist in the Museum. Students from North Bridlewood Junior Public School, the Toronto Japanese Language School, the Institute for Child Study, and several other schools were given lecture-tours of specific galleries.

David Pepper served as a member of the Museum's Communications Design Team.

For "Animals in Art", Julian Mulock prepared full-size reproductions of ancient cave paintings on either side of the main entrance to the exhibit.

### Sword Study Trip

In the fall of 1975, the ROM sponsored David Pepper's participation in the Samurai Sword Study Tour. Fifteen tour members travelled through central and northern Japan for three weeks, during which time they attended the annual conference of the Japan Society for the Preservation of Art Swords in Sapporo. The tour was organized for the specific purpose of visiting both private and public museums, historic sites, and actual craftsmen. It has provided a rich background for further study of this complex subject and has already been the basis of several talks and lectures, as well as of articles in international journals. The basis has now been laid for proper cataloguing of the Museum's own collection.

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## Design and Display Department

J.R. Anthony, Chief Designer

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The Design and Display Department deals with many varied tasks beyond those of pure display. There is a constant demand for renovations to permanent galleries, offices, and laboratories, as well as for the mounting of temporary exhibitions.

### Exhibits

The past year's first major exhibition was "Animals in Art", an international collection of wildlife art assembled through the efforts of ROM personnel. It showed a great diversity in wildlife artistic talent, both historical and modern, and attracted much interest both from the public and from other artists.

"Tokens of Possession", the next large exhibit, celebrated the 400th anniversary of Martin Frobisher's first voyage of discovery to North America. Through Dr. Kenyon's research we were able to draw plans and construct a model of Frobisher's vessel, the *Ayd*, probably the only such model in existence. Much of Frobisher's story was developed through specially created graphics, loaned materials, and ROM artifacts of the period.

The other large exhibition of the year was "Art of Aboriginal Australia", circulated by Rothmans.

With the help of our preparators and carpenters, several graphic exhibitions were mounted in the lower Rotunda including "Be-mushroomed" and Canadiana Photos, while in the third-floor Rotunda Japanese Roofs and Chinese Paintings were of much interest.

Exhibits in our outside showcases included Chinese material, Canadiana, and European subjects. Our exhibit in the subway has been popular and sometimes a bit controversial, particularly when we installed the mummy of Nahkt, an Egyptian working man.

This year we participated for the first time in the Flower Show at the CNE and were fortunate enough to win a merit award.

For the third year we placed an exhibit in the Sportsmen's Show. Our theme this year was "Living Fossils", those life forms that have not changed appreciably through time. The exhibit was one of the first stops for guided tours of the show.

During the summer we will be working on the design stage of "Gold for the Gods", a major exhibition from Peru due to open in late September. The artifacts show the Peruvian artistic development through the ages, ending with the Incas and the Spanish Conquest.





Display in the Subway showcase.

### Gallery Construction

Work has been completed on the Ontario Prehistory Gallery, which contains four dioramas created with the help of the Art Department, illustrating various stages of Ontario prehistory and the methods of archaeologists. Gallery 8, the first gallery of the Chinese series, is well under construction and should be ready by late summer. Design work has been completed on the Plains gallery and development has been done on some science sections.

### Building Renovations

Activities in this area have included the creation of offices for the Secretary to the Board and Financial Services in the Britannica Building, the office of a new Assistant Director, additional space for Public Relations, refurbishment of the guard-room area, and several other space changes. During the winter and early spring, the Chief Designer worked with the Museum's Communications Design Team on some of the problems of expansion.

The past year has been a busy one, but was made easier for us by the great help given to us by the carpenters and preparators. We look forward to another eventful year, starting with the "Gold for the Gods" exhibition.

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## Education Services

Riley E. Moynes, Head

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The year 1975-76 has seen the continuation of proven programmes, the beginnings of new ones, and the possibility of greatly expanded educational horizons in the future.

### Teacher Training

As in past years, qualified teachers on the staff of Education Services have served as Associates of the Faculty of Education of the University of Toronto and the Faculty of Education of Lakehead University. Student teachers interested in the potential of museum education come to the ROM usually for two-week periods and work closely with our teaching staff in learning some of the techniques of successful museum teaching. This experience is counted as an integral part of their degree programme.

A three-day seminar entitled "Behind the Scenes at ROM" was held for 25 teachers from across the province. It was planned to coincide with Teachers' Night, on October 20, 1975, which attracted over 1,900 teachers. During the three days, opportunities were given to see labs in operation, classes being conducted in the



## Education and Communication

galleries, and other Museum activities. The participating teachers met with our teaching staff to exchange ideas and to learn about the complicated matter of teaching with objects.

A six-session course entitled "The ROM: a Part of Your Classroom", was offered by the department through the School of Continuing Studies of the Faculty of Education of the University of Toronto. Galleries of particular interest were the location of a two-hour session aimed at determining how they could best be used with students of various levels.

An important ongoing teacher training venture is the programme developed for part-time teachers. The programme consists of observation of lessons, reading and research, teaching under supervision, and finally, for those who are successful, appointment and teaching alone.

### **Cooperation with Others in the Field**

After much preparation, Marilyn Jenkins of our teaching staff assisted in the launching of a new credit course in Canadian Studies offered jointly by the North York Board of Education, the Metropolitan Toronto Conservation Authority, and the Office of the Chief Archaeologist. Held at the Boyd Site in Woodbridge in August of 1975, it was a marked success and will be continued again this year.

This year too we cooperated with the Department of Environmental Studies at York University in supervising the work-study projects of two graduate students. An undergraduate student from Wilfrid Laurier University was also supervised as she worked on a Museum-related research topic.

Yet another cooperative venture was our work with the North York Board of Education's Museum Education Committee to help teachers to make best use of the galleries with their classes. An all-day training session was held, and a booklet was produced outlining some of the main considerations in planning a Museum visit.

### **Educational Activities Outside the ROM**

This year two staff members visited the Smithsonian Institution in Washington to examine its programmes and bring back ideas which we may wish to adopt. Two other staff members visited New York City to study the educational programmes offered by the Metropolitan Museum of Art and the American Museum of Natural History.

Schools planning "Activity Days" often request that one of our teaching staff be made available to the school for that day. Recently one of our teachers spent a day at three libraries in North York, teaching four classes on "Mummification and the Egyptian After-Life", using slides and artifacts lent by the Egyptian Department.



Riley Moynes discusses one of the teaching objects with a student during a pre-visit Museum introduction.



## Education and Communication

Alice Chrysler of the teaching staff made a study tour of various parts of Africa and visited Kenya and Tanzania.

### Professional Associations

The Head of the department completed the second year of his term on the Governing Council of the Ontario Museum Association and assisted in policy development. He also served on the Education Committee responsible for planning the education session at the Canadian Museums Association annual conference in Kingston, and was elected Chairman of the Education Planning Committee for 1976-77.

### New Programmes

In the summer of 1975 some members of our teaching staff worked in curatorial departments. Nancy Gahm worked with Vertebrate Palaeontology in Manitoba, and Ron Miles with the Egyptian Department. This plan will be expanded in the summer of 1976. Pat Isetta remained on duty to work with the increasing numbers of visiting summer school students.

A second new project is the taping of a television series about the ROM for Bay Ridges Cable TV. Each teacher is taping two half-hour segments on various cultures and topics, illustrated by the ROM's collections. The series is being shown in the Pickering area on Channel 10.

A third new venture is a survey to discover the reaction of Monday-morning Museum visitors to our policy of arranging visits by the very young at that time. Five hundred questionnaires were distributed to teachers who visited on a Monday morning, and changes in our programming will be made as required, in the light of the information obtained.

Perhaps the most important new project is our pre-visit service. Because prior preparation of classes results in a more successful Museum visit, we have decided to provide the pre-visit service on an experimental basis. Over the past year, volunteers have been trained by a member of our teaching staff and have been provided with six artifacts on loan from the Egyptian Department, a set of slides and pertinent scripts, and worksheets for students to use in the classroom. Our hope is that students will be encouraged to look at the artifacts, not just for their aesthetic qualities but also for what they tell us of life in ancient Egypt.

### Saturday Morning Club

The Saturday Morning Club had a successful season in 1975-76, with over 300 children registered in each of the two 10-week semesters. The main aim of the club is to foster in its members a new awareness, appreciation, and understanding of the Museum and its collections. To achieve this, gallery content is complemented and reinforced by closely related activities.

This season the introductory groups visited a wide range of galleries, exploring a theme or following an evolu-

tionary sequence. Children investigated communication through Egyptian hieroglyphs, Indian pictographs, and symbols in South American Indian sand-paintings. They explored life in Japan through traditional crafts, made costumed dolls, and tried Japanese food. Studies in evolution and adaptation were involved in the construction of dioramas.

Members returning to the Club chose a special topic for a ten-week semester. "Silk, Spices, Jade, and Trade" explored the links between the cultures of the East and West. Those who chose "Life and Arts of Canadian Native Peoples" investigated the rich ethnology collections of the ROM. "Beasts, Bugs, and Other Things" gave natural science enthusiasts a chance to learn why and how animals are collected, prepared, and stored. "Rocks, Minerals, and Fossils" helped budding geologists discover new interests in the galleries. Other programmes offered this year were "Ceramics", "Costume and Textiles", "Puppetry and Performing Arts", and "Sketching".

Without a dedicated, largely volunteer staff (of over 46 people) the Saturday Morning Club could not function. The children's experiences are enhanced considerably when they are given the chance to visit "behind the scenes", talk to ROM experts, and handle artifacts loaned from Museum departments. These experiences help to make the club an unusual and important enrichment programme.

### Student Visitors

A primary goal of the department is to provide students with enjoyable learning experiences. This year, despite the Metro Toronto Teachers' strike, more students visited the Museum than last year. We feel justified in concluding that we are providing enjoyable learning experiences. Our ability to do so depends on an outstanding staff of secretaries, full and part-time teachers and volunteers, and assistance and support from other Museum departments. Sincere thanks are extended to all of these people.

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## Exhibition and Programme Department

Helen M. Downie, Head

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In the course of the year the name of our department was changed to indicate more clearly its activities, and the Membership Office again became a part of the department. Both changes seem to have been beneficial for all concerned.

At the beginning of the year, Mrs. Downie was made





On behalf of Museum members a copy of *Les oiseaux de chez nous* by Leo-Paul Robert is presented to the ROM Library to commemorate the "Animals in Art" exhibition — L. to R. Mrs. Jane Jeffrey (Chairman, Members' Committee), Dr. James Cruise, Mr. Peter Buerschaper, Mr. Terry Shortt, Mrs. Judy Dick.

Chairman of the Exhibitions Committee, which meets regularly once a month.

Following a three-week trip to Lima, Peru, by Dr. A.D. Tushingham, Chief Archaeologist, Mrs. Helen Downie, Exhibition and Programme Officer, Mrs. I. Block-Bolten, Conservator, and Mr. Leighton Warren, Head Photographer, a committee was established to assist in planning and mounting the exhibition "Gold for the Gods", with Dr. Tushingham as Chairman and Miss McLay as Secretary. Mrs. Downie was named Manager of the exhibition. Two staff members were added in March 1976 to help with public relations matters and to handle the increased clerical work.

New membership brochures were designed and printed, and *Preview* was redesigned and reorganized, following the setting up of a Board / Staff sub-committee to look into the whole matter of membership.

### Major Exhibitions

"Animals in Art", an International Exhibition of Wildlife Art organized by Peter Buerschaper and Terry Shortt of the Museum staff, was a great achievement in planning and execution, and one of the most exciting and complex displays ever put together by the Museum. It was opened by Dr. Roger Tory Peterson, internationally famous ornithologist, naturalist, and artist. The

exhibition attracted world-wide attention. A well-illustrated catalogue by Peter Buerschaper was published by the Museum.

"Tokens of Possession", marking the 400th anniversary of the voyage of discovery by Martin Frobisher which led him to Frobisher Bay, was conceived by Dr. Walter Kenyon as a result of his own voyages to the North, and thanks to the generosity of the British Museum, the National Portrait Gallery, the Bodleian Library, and the Adler Planetarium, the concept was realized in a fascinating exhibition. The show was enhanced by loans from the ROM's Textile and Ethnology departments. Dr. Kenyon's book about Frobisher's voyages, published by the ROM, accompanied the exhibition.

"Art of Aboriginal Australia" circulated by Rothmans of Pall Mall Canada was organized by the Aboriginal Arts Board of the Australian Council for the Arts. The artifacts provided an insight into a culture thousands of years old. At the close of the successful Canadian tour, Rothmans announced that much of the material would remain in Canada, being donated to galleries in several provinces.

### Third-Floor Rotunda

When possible, an effort is made to support a major exhibition with supplementary exhibits and programmes.



# Education and Communication

An example of this was the fine display of books in the third-floor Rotunda as part of the "Animals in Art" exhibition. The books were lent anonymously.

Of the many interesting exhibitions displayed in the third-floor Rotunda during the year, a most significant and outstanding one was "Inside Out", an art show of works by more than 60 staff members. This was the first show organized by the ROM Staff Association.

## Lower Rotunda

Two beautiful one-man photographic exhibitions were held in the lower Rotunda, which deserve special mention. They were: "Water Light — Water Dreams" by photographer Robert Leigh of London, Ontario, who captured patterns of light on water in styles which appeal to those interested in both the realistic and abstract forms of camera art; and "Bemushroomed" by Toronto photographer Frans van Gerwen, who provided an aesthetic and fanciful journey into the world of mushrooms.

In the Stamp Corner, Dr. Stulberg provided us with a fascinating flow of nine exhibitions. We wonder at the inexhaustible supply of ideas and stamps. We are pleased to note that our previous Honorary Curator of Philately, Mr. Douglas Patrick, has recently been made a member of the Hall of Fame of the U.S. Philatelic Society.

## Lectures and Concerts

This year's concert series was a triumph for Mr. Richard Kolb, lutanist, who planned the programme of 16th- and 17th-century music. The Bishop White Gallery lends itself admirably to this type of concert.

Two of the lecture series this last year were planned to support exhibitions and at the same time to involve departments other than those directly concerned with the exhibition. These series were "Animals in Art" and "Gold Series I".

## Films

This year for the first time we showed a re-run of a CBC film series, *Images of Canada*. It was very successful, as can be seen from the attendance records, and both Mr. Vincent Tovell and Mrs. Carol Myers are to be thanked for their help and enthusiasm in the venture.

Also for the first time we alternated films and lectures in our series "Animals in Art". This too proved satisfactory.

## Special Events

The whole calendar is so full of interesting and unusual activities that it is almost impossible to pick out any particular highlights. However, the opening of the new Central European Gallery, Teachers' Night, the opening of "Curator's Career", the Christmas-tree ceremony, the Canadiana Gallery's 25th birthday, and the Wintario Draw all deserve special mention.

# Membership Office

Lorraine Bryant, Membership Secretary

During 1975-76 the Membership Office made several improvements in its internal operations to facilitate the servicing of the increased membership expected next year.

## Membership Statistics

	1975	1976
Annual Individual	2,854	2,908
Annual Family	449	415
Life	916	916
Fellow	45	47
Benefactor	55	59
Endowment	23	22
Patron	27	27
Honorary Life	38	39
	4,407	4,433

Approximately three-quarters of our Members live in the Metropolitan Toronto area. However, active memberships were held this year by persons in such far-away places as Switzerland, England, and Iran.

## Reorganization of Membership Categories

The Membership Office participated in the Board / Staff Committee which conducted an overall reassessment of membership categories. From this, it was decided that the "Fellow" and "Patron" categories would henceforth be honorary titles awarded by the Board of Trustees. The existing "Fellow" and "Patron" categories, based on financial support to the Museum, would be replaced by the new designations of "Sustaining" and "Founder" respectively. However, members holding "Fellow" and "Patron" titles prior to June 1976 will continue with those designations.

Other changes were the elimination of the "Family" membership category and the annual "Out-of-Town" membership. Lastly, a new non-member subscription to *Preview* was instituted.

## Modernization of Mailing System

A fundamental part of our service to Museum Members is the frequent mailing of such items as *Preview*, *Rotunda*, invitations, and the Annual Report. Much-needed modernization of the addressing and mailing equipment was attained through the purchase of a new Pitney-Bowes Addresser-Printer unit. This equipment will make possible more rapid updating of our records and better overall service to Members. It was a gift from the Members and is available for use by other Museum departments.

The operations of the Membership Office were greatly assisted over the year by the many hours of work



provided by the Museum volunteers. Among other evidence of this work is the fact that the Membership volunteer desk was responsible for enrolling 445 new Members.

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## Extension Services

D.A. Young, Head

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Most ROM departments have for many years responded actively to the need to make the vast resources of the Museum more accessible to communities across the province, and this objective was confirmed last fall in the *ROM Statement of Intent — September 1975*.

Government funding, both federal and provincial, has been made available to the ROM to carry out an expanded programme of extension services. With adequate funding it has been possible to ensure that all risks involved in circulating Museum materials are minimized.

### Modular Exhibit System

Last year Extension Services staff completed the design and production of an outstanding exhibit system. Comprising cases of two different sizes which can be suspended between columns of three different shapes, the system allows for the exhibit cases to be arranged in a variety of configurations. The cases are dust-proof and humidity-controlled, and they shield out ultra-violet light. They also incorporate a number of other features that guarantee a very high degree of security against physical and environmental hazards. The system is aesthetically pleasing and ideally suited for circulating exhibits. The designer, John Hillen, deserves a vote of congratulation for work well done.

### Circulating Exhibits

A grant from the National Museums of Canada funded the production of the modular exhibit system described above for three centres: the Art Gallery of Windsor, the Thunder Bay National Exhibition Centre, and the Art Gallery of Algoma in Sault Ste. Marie. These three exhibit systems, each composed of four columns and ten cases, will be a permanent asset in each of these communities and will be used in the future for both ROM travelling exhibits and local exhibits. The same grant funded the production and circulation of four inter-related exhibits for these three centres, covering aspects of life in pioneer and colonial Canada.

"In Days of Yore . . .", an exhibit of furniture from the Canadiana collections, was complemented by three rotating exhibits: "European Elegance in Colonial Canada", a print show mounted on freestanding panels;

"Hearth and Home in Colonial Canada", an exhibit of glass, ceramics, treen, tin, and ironware from the Canadiana collections; and "Handweaving in Pioneer Canada", fabrics from the Textile Department illustrating the major traditions of Canadian handweaving. This last exhibit was designed to parallel the content of a small booklet originally entitled *Keep Me Warm One Night*, written by Harold Burnham. This booklet was reprinted, and to avoid confusion with the major publication with the same title, it was renamed *Handweaving in Pioneer Canada*.

A fifth exhibit entitled "Canadian Handweaving Samples" was also produced and circulated last year. Composed of swatches of material that can be handled with impunity, this exhibit is an experiment which has proved very popular, particularly with groups of spinners and weavers.

Work has also been started on a photographic exhibit entitled "The Confederation Generation". Quotes and illustrations of the period provide a first-hand account of the manner in which Canadians of the first decade perceived themselves and their country.

Detailed planning for an exhibit on the Indians of Canada has also begun. This exhibit of materials from



"Hearth and Home" Exhibition at the Art Gallery in Windsor.



## Education and Communication

the Ethnology collections is being designed for the ROM modular exhibit system.

### Museumobiles

In the period from July 1, 1975, to June 30, 1976, the "Fossils of Ontario" museumobile visited 60 communities with an attendance of 28,382. Since this exhibit opened in 1973, it has visited 149 different communities in Ontario with a total attendance of 121,692. "Man in Ontario", a newer museumobile, has visited 149 different communities since 1973, with a total attendance of 81,267. From July 1, 1975, to June 30, 1976, 18,678 children and adults in 56 different communities visited this exhibit.

### Festival Ontario

This programme of the Ministry of Culture and Recreation, established in 1973, provides funds to about 20 participating agencies such as the ROM and the Art Gallery of Ontario. Its purpose is to make the resources of Metro Toronto more accessible to Ontario communities.

In the past year, the museumobiles have been the most effective means of meeting requests from communities applying for ROM services through Festival Ontario. Exhibits and / or speakers were sent to 11 festivals last year, in towns as close as Alliston and as distant as Fort Frances.

### Film Library and Archives

Five different series of film programmes were offered to the general public last year, with a total attendance of over 14,000.

"Times Five", offered for five Wednesdays in July, 1975, highlighted such National Film Board features as "Drylanders" and "Mon Oncle Antoine".

"ROM Showcase", featuring films from the ROM collections, was shown at 12:30 and 2:00p.m. every Tuesday through July and August.

"China Past and Present", commemorating the Chinese Exhibition, attracted large audiences each Wednesday at 7:30p.m. from August 6 to 27.

The traditional ROM Sunday film programmes began another season on October 5 with a 2:00p.m. family series and an evening series designed for adults.

Two films were produced last year by Extension Services: "Drinking Vessels", scripted by Peter Kaellgren and narrated by Corey Keeble, both of the European Department, and "A Chateau of New France — Excavations at Fort Senneville", filmed and scripted by Mr. Webster, Head of the Canadiana Department.

### FOROM Senior Citizens' Club

Since its beginning in 1971, this club named "Friends of

the Royal Ontario Museum", has continued to attract an increasing number of senior citizens who quite simply enjoy learning. Total enrolment in FOROM last year exceeded 150. Because of this increase in numbers, the club has divided into two groups, one meeting on Monday afternoons and the other on Thursdays, from October to June.

As in the past, ROM staff and the Touring Committee provided a number of talks, films, gallery tours, and behind-the-scenes activities. It has also been the custom for members of the club to make presentations to the rest of the group. Several members of the club also acted as hosts in a special programme of films and gallery tours offered during Senior Citizens' Week from June 21 to 25.

### Extension Services and Lecturing

Extension Services continued last year to organize extension courses, some in cooperation with the U of T School of Continuing Studies; to schedule extramural lectures by ROM staff; and to offer a course to Ryerson Polytechnical Institute students of Interior Design. Details of these lectures and courses will be found in the reports of the various departments concerned.

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## Information Services

D.K. Brown, Head

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The variety of events in which the Museum was involved during the past year called for an equally varied number of publicity endeavours. The events ranged from the major exhibition of the year, "Animals in Art", to the discovery of two War-of-1812 wrecks in Lake Ontario, and to Dr. Chris McGowan's participation in an expedition searching for evidence of the Loch Ness "monster".

The former two events were announced through press conferences, which were well attended by the media. The press conference dealing with the discovery of the wrecks was held in Burlington, Ontario, at the Canada Centre for Inland Waters, which has provided invaluable assistance to the Museum in the search for the vessels.

Approximately 100 invitations, sent to the media for the "Animals in Art" press conference, resulted in the attendance of 75 media representatives, an above-average turnout for events of this type.

In other publicity activities, we have achieved notable success with a stepped-up programme of public service announcements directed primarily at radio and television stations in Toronto. During this year, 165 public service



## Education and Communication

announcements sent to these outlets were all mentioned in free air time and generated innumerable enquiries and interest from both the general public and the media. The announcements dealt in the main with current exhibitions, film programmes, and special events.

Ten posters were designed and produced by the department to publicize exhibitions mounted by the curatorial departments and the McLaughlin Planetarium. Particularly worthy of mention are the two posters produced for the "Animals in Art" exhibition; the unprecedented demand for these resulted in a second printing, and requests for them are still coming in.

Another noteworthy event was the Open House on March 18 organized by the Members' Committee, designed to offer the public a behind-the-scenes look at the institution. The 19 curatorial departments opened their research areas, with staff in attendance to explain the nature of their work to visitors. In addition, Members' Committee volunteers conducted mini-tours of the galleries. As another drawing card for the Open House, it was our good fortune to have the 23rd Wintario Lottery draw televised from the Armour Court. This was attended by the Honourable Robert Welch, Minister of Culture and Recreation, and other senior members of his Ministry.

### Publications

Though 1975-76 was a year of organizational changes in the department, requiring the planning of new policies and programmes, production of publications remained at a high level. Publications in the "general" category were the catalogue for the exhibition "Animals in Art", *Tokens of Possession*, *Man in Nature*, *Northwest Coast Gallery*, a series of short gallery guides prepared by the Members' Committee, and a pamphlet / catalogue *From the Marmora to the Great Wall of China*. In the Art and Archaeology series, we produced John Hayes' *Roman Pottery in the Royal Ontario Museum*, a companion volume to the same author's *Roman and Pre-Roman Glass in the Royal Ontario Museum*. Life Sciences publications included six Contributions, one Occasional Paper, *Quetico Fishes*, and *Athlon: Essays on Palaeontology in Honour of Loris Shano Russell*. The four quarterly issues of *Rotunda*, the *Annual Report* for 1974-75, and two catalogues of publications in print (general and academic) completed the year's output.

Four ROM publications have been awarded grants in aid of publication by the Humanities Research Council of Canada. These are: *Roman Pottery in the Royal Ontario Museum* by John W. Hayes; *The Menzies Collection of Shang Dynasty Oracle Bones*, Vol. II, and *Oracle Bones from the White and Other Collections*, both by Hsu Chin-hsiung; and *Studies in Textile History* by Veronika Gervers. Only the first of these has so far been published.



Two ROM books that won design awards in the "Look of Books" competition.

ROM books received significant recognition when two of the previous year's publications, *Florentine Baroque Bronzes and Other Objects of Art* and *Images of Eighteenth-Century Japan*, were among the 25 selected for awards in the annual "Look of Books" competition sponsored by Design Canada. The books chosen for these awards are those that "incorporate the highest standards of bookmaking from the point of view of design and production, consistent with price and purpose" and that "reflect imagination and sensitivity in the treatment of content and choice of materials, and high standards of manufacture." The 25 winning entries were sent as a travelling display across Canada and abroad as examples of the best in Canadian bookmaking.

In February, John Campsie attended a one-day seminar in New York for the heads of publication departments of North American museums and art galleries. The seminar was held under the auspices of the American Federation of the Arts, and more than 30 institutions were represented, including most of the major ones. A useful beginning was made in devising cooperative strategies for tackling common problems and in organizing exchanges of information. Mr. Campsie was appointed to the steering committee that was charged with the task of carrying the work forward.

The Museum again had a booth at the Montreal International Book Fair (May 19-24) where the display of ROM publications attracted much favourable attention both from the trade and from the public. Both Mr. Campsie and Miss Peggy Wentz attended the Fair. Our publications are also receiving wide exposure at book exhibitions and displays across Canada through our membership in the Canadian Book Information



# Education and Communication

Centre and through our own individual participation in book exhibitions such as the one held in conjunction with the meetings of the Association for Asian Studies in March and the Kingston Festival of Canadian Books in April.

As a step towards a wider marketing and distribution system for ROM books, an agreement has been concluded with Books Canada Ltd. to promote and distribute Museum publications in the United Kingdom and adjacent areas of the European continent. Books Canada Ltd. is a private limited company incorporated in Britain by the Association for the Export of Canadian Books.

## Museology Department

W. Hewitt Bayley, Head

The Museology Department is now in its seventh year. The 15-month curriculum for 1975-76 was in accordance with the approved syllabus. The Master's Degree Programme comprises two cognate courses in the School of Graduate Studies, University of Toronto, together with 140 two-hour lectures and seminars between September and June and various assignments in the practical requirements of museology and museography at the Royal Ontario Museum and the Art Gallery of Ontario. Students spend June to September working in other institutions to test their acquired knowledge and skills. During October and November, the students may pursue further study and practice under supervision in museum disciplines, if summer internship work has indicated that reinforcement is desirable.

We wish to thank all curators and department heads who have so generously given of their time and knowledge to make the programme effective. The gratifying success the programme has achieved over the years is largely due to the availability of Museum faculty for work with students in one of the world's leading museums. Because the Royal Ontario Museum houses collections and curatorial experience both in the sciences and in art and archaeology, the ROM museology programme has a wide academic base unique in museum training. The effectiveness of the programme is measured by monitoring each student's performance after the conclusion of training. Questionnaires are sent to each student quarterly. Response (upwards of 90%) has been remarkable, because the data received are edited and circulated in the form of a newsletter. Through the newsletter, students learn of their colleagues' progress, whereabouts, and projects. Museology students are encouraged to look to the ROM for support after graduation with respect to sources of information

and services connected with their museum work. Another activity that reinforces the museology community is the annual alumni party, now in its second year. This event is held in the Museum and is entirely run and organized by the museologists. This year about 40 attended a wine and cheese party in Room 4.

There has been no diminution in the number of applicants for the programme, which has remained at about 150 over the past several years, with about 5% applying for the second time each year. About 15 applicants are accepted for enrolment. The problem of future employment in museums is a constant concern. We have been very fortunate in the past in assisting students to obtain posts. The table indicates the number of museology students employed in various types of institution and various museum tasks.

Type of Institution or Work	
Museums.....	24
Art galleries and archives.....	12
Parks and historic sites.....	13
Science centres .....	5
Advanced degree programmes.....	5
National museum policy.....	1
Interior design professor.....	1
Writer-photographer.....	1
Public relations (Shaw Festival) .....	1
Writing thesis .....	6
Unemployed .....	3
Internships (Class 1975-76).....	17
Total .....	89

Posts Held	
Director (small museums).....	6
Curator.....	5
Assistant curator.....	2
Educator (museums and art galleries).....	10
Parks planner / Interpreter .....	8
Conservator.....	1
Assistant conservator.....	3
Registrar.....	2
Display coordinator .....	6
Museum adviser .....	3
Astronomer (department head).....	1
Researcher .....	3
Museum administration secretary.....	3
Historical writer.....	1
Public relations officer .....	1
Advanced degree programme .....	5
Media technician .....	3
Writing thesis .....	6
Unemployed .....	3
Internship (class of 1975-76) .....	17
Total .....	89

The Museology departmental library now comprises over 500 titles, catalogued according to museum disci-





Planning travel cases at 110 Dupont Street. Class IX with Betty Clark (left) and W. Hewitt Bayley (second from left).

pline. This little library of books, pamphlets, and periodicals has from time to time been of service to curatorial departments and other groups in the Museum such as the Project Planning Group.

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## Photography Department

L.R. Warren, Head Photographer

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It has been a busy year for the Photography Department. The demands from the curatorial and administrative departments were heavy, and many publicity photographs were needed for the "Animals in Art" exhibition in October. In all, the department produced more than 27,000 black-and-white photographs, 5,000 black-and-white negatives, and nearly 10,000 colour slides or transparencies.

Preparations for the "Gold for the Gods" exhibition required our Head Photographer, Leigh Warren, to go to Peru in November to take colour photographs of artifacts at the Museo Oro del Peru in Lima for the catalogue, and also several hundred colour slides for the lectures and seminars to be held at the ROM in con-

nection with the exhibition. To date, we have printed 1,800 photographs to be used for publicity purposes in connection with the exhibition.

During the winter, Bill Robertson was asked to lecture on the subject of field and artifact photography at Wilfrid Laurier University in Waterloo to a group studying historical archaeology.

Among the Museum publications for which this department supplied photographs were *Roman Pottery in the Royal Ontario Museum*, the "Animals in Art" catalogue, and the guide to the Northwest Coast Gallery. In addition, hasti-notes were made for the Far Eastern, Textile, and Greek and Roman departments; 16 new colour postcards were produced (eight for the "Animals in Art" exhibition and eight for the Textile Department); and two full-colour posters were produced for the "Animals in Art" exhibition.



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### Members' Committee

Jane Jeffrey, Chairman

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The Members' Committee coordinates volunteer activity within the Museum. Its purpose is "to assist the Board and Staff as they request, and to encourage public interest in the Royal Ontario Museum". This year the Board of Trustees approved new terms of reference for the Committee, expanding its responsibilities.

#### Touring

Free public tours of the collections in the main Museum building were given on weekdays at 12:15 and 2:00 p.m.; at the Canadiana building on Wednesdays at 12:15 p.m.; and in the Planetarium on Tuesdays and Thursdays at 2:00 p.m. — a total of 13 regular tours per week. There are 65 tour titles, and many hours of research and study lie behind every tour. In addition, tours were provided for the special exhibitions "Animals in Art", "Tokens of Possession", and "Art of Aboriginal Australia", and there were also special tours in the Textile Department. Pre-booked group tours were given on request at a charge of \$1.00 per person. Through these and other monies from projects the Committee was able to make a gift of a woman's bodice to the Textile Department and a contribution towards the bronze statue *Jupiter and the Infant Bacchus* to the European Department.

The script for the "Walking Tour of the Museum", a general overview of the collections, has been translated into French and German, and is given on request. This newest venture has been well received.

In all, nearly 8,000 people were toured through the Museum, in addition to 54 special groups, and more than 1,300 people were toured through special exhibitions. More than 30 Members, five of whom graduated this year from an extensive tourer training course, were responsible for this demanding programme under the chairmanship of Bette Shepherd.

Eighteen members of the Committee, together with Barbara Stephen and Betty Kingston of the Far Eastern Department, visited the People's Republic of China in October. Their invitation followed their work with the Chinese Exhibition last year. This illuminating experience has greatly enriched the resources of the Committee. Two subscription series of lectures on "China Observed", given in November and April for the Far Eastern Endowment Fund, were the direct result of this visit.

The Committee also supported the Textile Endowment Fund which funded lecture series and other events.

#### Projects

Gloria Turner, the project chairman, coordinated special

projects for the Committee. Two bus trips were organized for Museum Members. In connection with the exhibition "Animals in Art", a trip to the Metro Toronto Zoo followed a film and talk by Mr. Terence Shortt. The ever-popular geology bus trip conducted by Dr. Walter Tovell was expanded to cover two days in May, travelling to the Niagara Escarpment along the coast of Georgian Bay. These Museum-oriented outings were informal, instructive, and great fun.

The Museum Christmas Tree was decorated with ornaments that were made by hand to represent 17 departments and ranged from sparkling spider webs to Chinese silk dolls. The public, staff, and volunteers joined to mark the raising of the tree with Christmas readings from early Canada by Dr. and Mrs. Arnold Edinborough and carols by the choir of St. George's College. The Open House in March presented a rare opportunity for the public to meet our curators and staff "behind the scenes" in the research areas and laboratories of their departments. Despite a snowstorm over 4,000 people attended, and 20 new Members joined the Museum.

Members of the Committee helped to prepare themselves for the Steuben Glass Exhibition by visiting the Corning Glass museum in New York.

To honour the 25th Anniversary of the Canadiana Gallery, a birthday party was held in June, complete with tours, candled birthday cake, and old-fashioned punch served by Members in early Canadian dress.

The first 11 gallery guides, brief descriptions of Museum galleries, appeared in print after much anticipation. These guides were the culmination of the efforts of Barbara Hill, and will be of great benefit to visitors and Members alike. This will be an ongoing project of the Members' Committee.

#### Placement

The diverse talents of the Members were diplomatically deployed throughout the Museum by Diana Wurtzburg, placement chairman. Our Members work in many departments: Mammalogy, Ornithology, Far Eastern, Greek and Roman, Vertebrate Palaeontology, Invertebrate Palaeontology, Display Biology, Mineralogy, European, Ethnology, Canadiana, Egyptian, and West Asian. They catalogue, file, type, mount slides and pictures, sort sherds, map and research, and check records and specimens. These are rewarding tasks — one Member said that even Moses couldn't get her out of Egypt! Jewellery from early cultures to *art nouveau* was researched by the study group. The school orientation programme made a splendid start. After intensive training by the Education Department, six Members visited 33 Grade 5 classes prior to their visits to the Egyptian galleries to give slide presentations and to allow the pupils to handle and discuss ancient objects. This programme will expand into the Far Eastern galleries next year.



## Stream 4

### Administration and Facilities

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To welcome new Members to the Museum special evenings of tours, films, and refreshments were held in January and May.

The Museum Volunteers, a group of more than 75 enthusiastic Members of the Museum administered by the Members' Committee, meet monthly for lunch and a film or behind-the-scenes tour, but the rest of the time they serve in many ways. Their most visible presence is at the information desk, which they operate for 364 days of the year. Their energetic support is greatly appreciated.

#### Travel Programme

Museum-oriented tours, begun last year by the Board of Trustees as a service and benefit for Museum Members, have been coordinated by the Committee. In August, with Dr. Walter Tovell as resource person, "A Viking Adventure" left for Scandinavia with Diana MacFeeters to visit Iceland, Norway, and Denmark. In February Audrey Ellard led a group toward the lands of the Maya civilizations, where Dr. David Pendergast was on site at the ROM excavation in Belize. The earthquake in Guatemala caused a last-minute rerouting to Mexico, but the visit to Altun Ha, where the travellers heard Dr. Pendergast relive his discovery of the largest piece of carved jade ever found at a Maya site, was memorable. Lastly, in May, with Mrs. Barbara Stephen as resource person, a group visited Japan and Hong Kong with Audrey Kitching as coordinator. These tours have been tremendously popular and obviously fill a need in our services to Museum Members.

The Committee suffered a tragic loss in the death of a loved Member and friend, Stella Karpus. She is sadly missed by us all.

This report cannot of necessity include all the activities carried out by the Members' Committee or all of the names of those who deserve special thanks. It has been an honour and a pleasure to serve as Chairman.

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## Book and Gift Shops

Patricia L. Dowton, Manager/Buyer

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This year we adopted a plan for putting more ROM reproductions and cards in the shops, working in conjunction with curators, photographers, and artists. We have produced a medallion in both silver and bronze inspired by a Greek silver coin of about 450 B.C., and a sterling silver pin in the form of a dragon (this being the Chinese Year of the Dragon), both designed by Vanessa Compton; and three bronze figures from the Egyptian galleries — the god Osiris (8th or 9th century B.C.), the goddess Neith (5th century B.C.), and Cat (4th-1st century B.C.), by Haakon Bakken. The Christmas card for 1975 was taken from *The Canadian Illustrated News* of 1885, which is stored in the Canadiana Gallery. Also for Christmas we produced a very attractive hasti-note with a detail from the cover of K.B. Brett's *English Embroidery in the Royal Ontario Museum* and a set of eight postcards of coverlets and quilts from the Textile Department.

September brought us a most spectacular exhibition "Animals in Art". We had postcards made of the works of several of the artists, together with a portfolio of four prints taken from Lady Gwillim's bird paintings, which were one of the highlights of the exhibition.

On December 12 we were invited to set up a booth to display and sell Christmas tree ornaments, cards, and various small items, at a luncheon for 1,550 members of the Canadian Women's Club held in the Four Seasons Sheraton Hotel. This was a most successful operation and we were grateful for the help of three members of the Members' Committee.

In the New Year we introduced four new boxes of hasti-notes, including scenes of the Olympics taken from Greek vases. The flat projections were excellently drawn by Julian Mulock of our Art Department.

A visit to Ecuador provided an opportunity to purchase several unusual items for the shop, including colourful ornaments made of bread dough and unusual Amazonian-type jewellery.

During the exhibition "Art of Aboriginal Australia" in April, we had boomerangs, didgeridoos, bark paintings, and wood carvings for sale.

The Planetarium shop is still an interesting area for the more scientifically minded and the amateur astronomer, while the Mini Shop, with its selection of interesting and inexpensive items, is always a great delight for the children.



# Museum Attendance

## July 1, 1975 – June 30, 1976

<b>Main Building</b>	
Paid attendance	224,854
Museum functions (openings)	3,076
Evening 5:00–9:00 p.m.	182,354
Non-paid attendance	298,365
School classes	140,787
Other groups (inc. rentals)	13,584
Total Main Building	853,020
<b>Planetarium</b>	
Public shows	112,759
School classes	70,882
Other groups (+Star Theatre)	2,502
Visitors to Display & Lect. Rm. (+Laserium)	222,964
Total Planetarium	409,107
<b>Canadiana</b>	
Visitors	34,286
School classes	2,601
Miscellaneous	2,378
Total Canadiana	39,265
<b>Grand Total</b>	1,301,392

### Comparative Attendance Total

<b>1968–69</b>	<b>1969–70</b>	<b>1970–71</b>	<b>1971–72</b>
1,369,034	1,330,804	1,266,648	1,372,929
<b>1972–73</b>	<b>1973–74</b>	<b>1974–75</b>	<b>1975–76</b>
1,164,243	1,105,743	907,701	1,301,392

# School Attendance

## July 1, 1975 – June 30, 1976

<b>Metro</b>	
Conducted classes	28,313
Unconducted classes	26,560
Total	54,873
<b>Provincial</b>	
Conducted classes	51,175
Unconducted classes	34,739
Total	85,914
<b>Community Colleges and O.C.A.</b>	
Conducted classes	815
Unconducted classes	6,945
Total	7,760
<b>Universities</b>	
Conducted classes	314
Unconducted classes	543
Total	857
<b>Miscellaneous</b>	
Total	10,000
<b>Canadiana</b>	
Conducted classes	2,041
Unconducted classes	552
Total	2,593
<b>Grand Total</b>	161,997



# Auditors' Report

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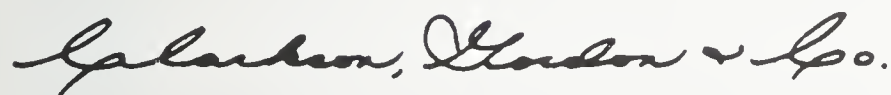
## To the Trustees of the Royal Ontario Museum:

We have examined the balance sheet of The Royal Ontario Museum as at June 30, 1976 and the statement of financial operations for the year then ended. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances, except as noted in the following paragraph.

Bequests, grants and donations to trust accounts, by their nature, are not susceptible of complete audit verification. Accordingly our verification of receipts from these sources was limited to a comparison of recorded receipts with bank deposits.

In our opinion, except for the effect of any adjustments which might have been required had we been able to completely verify bequests, grants and donations, the accompanying financial statements present fairly the financial position of the Museum as at June 30, 1976 and the results of its operations for the year then ended, in accordance with accounting principles generally accepted for non-profit organizations applied on a basis consistent with that of the preceding year.

Toronto, Canada,  
August 30, 1976.



Clarkson, Gordon & Co.  
Chartered Accountants



# Balance Sheet

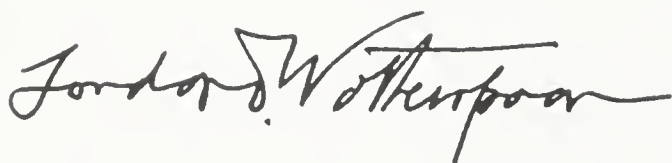
## June 30, 1976

(with comparative figures as at June 30, 1975)

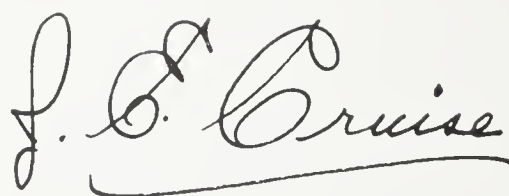
	1976	1975
<b>ASSETS</b>		
<b>Operating:</b>		
Cash	\$ 71,946	
Short-term investments	228,920	\$ 345,529
Excavation, field work and travel advances	68,803	67,327
Accounts receivable	84,812	66,388
Inventories	162,237	135,685
Prepaid expenses	107,676	31,550
Fixed, at nominal value –		
Land and buildings	1	1
Contents	1	1
	724,396	646,481
<b>Trust:</b>		
Short-term investments	853,080	2,557,971
Marketable securities, at cost (quoted market value – \$3,359,000; 1975 – \$1,556,000)	3,525,565	1,638,007
Accrued interest	64,875	27,747
	4,443,520	4,223,725
	\$5,167,916	\$4,870,206
<b>LIABILITIES AND TRUST FUNDS</b>		
<b>Operating:</b>		
Bank indebtedness		\$ 3,592
Accounts payable and accrued liabilities	\$ 348,356	311,000
General reserve	376,040	331,889
	724,396	646,481
	4,443,520	4,223,725
	\$5,167,916	\$4,870,206

(See accompanying notes)

On behalf of the Board:



Gordon D. Wotherspoon  
Trustee



J. E. Cruise  
Trustee and Chief Executive Officer

### NOTES TO FINANCIAL STATEMENTS

#### 1. Summary of accounting policies

The following summary of accounting policies of The Royal Ontario Museum is set forth to facilitate the understanding of data presented in these financial statements:

(a) *Inventories* – Inventories, which consist mainly of book and gift shop items for resale and supplies, are stated at the lower of cost and realizable value.

(b) *Fixed assets* – Land and buildings and contents are carried at nominal values of \$1. Additions to fixed assets are expensed in the year of acquisition.

#### 2. Expansion program and related Province of Ontario financing

The Royal Ontario Museum has incurred expenditures totalling \$892,435 to June 30, 1976 (including \$605,578 in the current year) with respect to a program of major renovations to, and expansion of, its facilities. To June 30, 1976, the Museum has received

amounts totalling \$696,000 (including \$525,000 in the current year) from the Ontario Universities Capital Aid Corporation in connection with such expenditures, and has issued debentures payable in such amounts to that corporation. It is anticipated that the excess (\$196,435) of such expenditures over the related amounts received and recorded in the accounts of the Museum to date will be received in future periods from the Ontario Universities Capital Aid Corporation.

Payments of debenture principal and interest are being made by the Ministry of Culture and Recreation of the Province of Ontario over a thirty-year period on behalf of the Museum; accordingly, the amount of the outstanding debentures has not been recorded as a liability in the accounts.



# The Royal Ontario Museum

## Statement of Financial Operations

### Year Ended June 30, 1976

(with comparative figures for the year ended June 30, 1975)

	1976			1975
	Operating	Trust	Total	Total
<b>RECEIPTS</b>				
<b>Operating:</b>				
Province of Ontario grants	\$6,575,000		\$6,575,000	\$5,474,046
Board of Education	53,439		53,439	49,431
Admission fees—Planetarium and general	243,774		243,774	191,270
—Laserium	185,900		185,900	
Museology fees and grants	72,409		72,409	66,691
Service departments (net)	47,598		47,598	53,349
Other	13,038		13,038	11,288
<b>Trust:</b>				
Bequests, grants and donations		\$ 374,067	374,067	543,719
Province of Ontario grant for geochronology laboratory		300,000	300,000	
Investment income		372,442	372,442	343,943
Membership fees		91,665	91,665	88,202
Admission fees		55,881	55,881	38,755
Exhibition and project endowment				601,652
Other		308,582	308,582	189,807
<b>Total receipts</b>	<b>7,191,158</b>	<b>1,502,637</b>	<b>8,693,795</b>	<b>7,652,153</b>
<b>EXPENDITURES</b>				
Artifacts and specimens	50,000	271,778	321,778	150,511
Building maintenance	468,376		468,376	332,713
Installation of geochronology laboratory		299,982	299,982	
Equipment	106,224	109,656	215,880	142,159
Supplies	221,838	119,807	341,645	242,224
Excavations and fieldwork	151,872	99,546	251,418	228,457
Gallery renovations	101,208	5,302	106,510	147,473
Services	248,407	14,021	262,428	220,539
Travel, expeditions	114,635	31,044	145,679	149,442
Exhibitions (net)	169,553	31,698	201,251	51,250
Books and periodicals	60,872	189	61,061	59,950
Publications (net)	71,202	75,930	147,132	231,510
Advertising and publicity	59,339	12,407	71,746	76,215
Other	130,919	8,583	139,502	97,105
Salaries and wages	5,192,562	122,321	5,314,883	4,539,936
<b>Total expenditures</b>	<b>7,147,007</b>	<b>1,202,264</b>	<b>8,349,271</b>	<b>6,669,484</b>
Excess of receipts over expenditures before the following:	44,151	300,373	344,524	982,669
Expansion program (note 2):				
Expenditures relating to Museum expansion		605,578	605,578	161,529
Less financing provided by Ontario Universities		525,000	525,000	50,000
Capital Aid Corporation		80,578	80,578	111,529
Excess of receipts over expenditures for the year	44,151	219,795	263,946	871,140
Balance of general reserve and trust funds, beginning of year	331,889	4,223,725	4,555,614	3,684,474
Balance of general reserve and trust funds, end of year	\$ 376,040	\$4,443,520	\$4,819,560	\$4,555,614

(See accompanying notes)



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# Calendar of Events

## July 1, 1975 – June 30, 1976

### Major Exhibitions

1975

October 7 to December 14. **Animals in Art: An International Exhibition of Wildlife Art.** Opened by Dr. Roger Tory Peterson on October 6, 1975. Exhibition Hall — Main Floor.

1976

February 3 to March 28. **Tokens of Possession.** Opened by Dr. William E. Taylor, Jr., Director of the National Museum of Man. Exhibition Hall.

April 27 to May 24. **Art of Aboriginal Australia.** Opened by His Excellency, Mr. Harold Maxwell Loveday M.B.E., High Commissioner for Australia. Circulated by Rothmans of Pall Mall Canada. Exhibition Hall.

### Third-Floor Rotunda

1975

August 19 to September 14. **Japanese Roofs.** Photographs by Ed Holcomb. Circulated by the International Exhibitions Foundation, Washington, D.C.

October 7 to December 14. **Animals in Art.** A collection of historic books on wildlife lent by an anonymous collector.

December 23 to February 15. **Photomicrographs of Minerals.** By Mrs. Violet Anderson, Research Associate, Department of Mineralogy and Geology. Arranged by the ROM Extension Department.

1976

March 12 to April 18. **The Heritage of Centuries: Traditional Style Painters of the People's Republic of China.** An exhibition of works by painters active in China today.

May 4 to June 7. **Inside Out.** An exhibition of creative work by more than 60 ROM staff members.

June 29 to July 25. **PSI Search.** Produced by the California Museum of Science and Industry and circulated by the Smithsonian Institution Travelling Exhibition Service.

### Lower Rotunda

1975

July 15 to September 7. **Danish Museum Posters.** A collection of 50 posters circulated by Dorothy T. Van Arsdale Associates.

September 9 to October 19. **Water Light — Water Dreams.** Photographs by Robert Leigh.

October 24 to November 30. **The Vanishing Jungle.** The World Wildlife Fund sponsored a children's international drawing competition as part of its campaign to preserve the tropical rainforest. Five Canadians were among the winners.

December 2 to December 21. **Saturday Morning Club.** Work by the children of the Saturday Morning Club in the fall session was on display.

1976

January 6 to February 15. **Sporting Life in Early Canada.** A collection of 19th-century prints from the Canadiana Department, prepared for circulation by Extension Services.

March 2 to April 20. **Bemushroomed.** By Toronto photographer Frans van Gerwen.

May 5 to June 6. **Our Canadiana Gallery's 25 Years.** A photo-exhibition of the growth of the department, its collections, and activities.

### Stamps — Lower Level

1975

to July 31. **Embroidered Postcards of World War I.**

August 5 to September 15. **Stamps of Montenegro.** Displayed at the ROM, following a showing at the International Stamp Exhibition in Paris.

September 20 to November 2. **The Law Stamps of British Columbia.**

November 4 to December 14. **The Gaza Strip.** Letters sent to and from the Gaza Strip.

December 16 to January 4. **Christmas Cards of the Victorian Era.**

1976

January 5 to February 15. **Cancellations, Obliterators, and Killers.** Cancellations on Canadian stamps during the Victorian era.

February 16 to March 8. **19th-Century Mailings from India.**

April 1 to May 30. **The Medallion Issue of Canada.** Issued in 1932, showing King George V in a medallion motif.

June 1 to August 15. **Olympic Issues.**

### Textile Gallery

1975

July 5 to September 30. **Pieced Quilts of Ontario.** A group from the Museum's large and important collection of quilts selected to coincide with the ROM's publication of a booklet by Dorothy K. Burnham, *Pieced Quilts of Ontario*.

November 11, 1975 to February 29, 1976. **Curator's Career.** An exhibition honouring Katharine Brett, retired Curator of the Textile Department.

1976

March 6 to August 22. **From the Marmora to the Great Wall of China.** An exhibition of more than 40 carpets and related textiles from Asia Minor, the Caucasus, Persia, Afghanistan, Turkestan, Tibet, and China.

March 6 to June 30. **Recent Canadian Textile Acquisitions.** A small special exhibition showing the many examples of Canadian weaving, quilting, and embroidery added in the past year to the Textile Department's already important collections.



# Calendar of Events

June 1 to September 12. **Special Exhibit of American Costumes.** In honour of the U.S. Bicentennial the Costume Gallery displayed American costumes worn from the 18th century until 1876.

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## Canadiana Gallery

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1975

September 18 to December 1. **Cornelius Krieghoff (1815-1872), Genre Painter of Early Canada.** Pioneer life in Canada as seen by Cornelius Krieghoff, reflecting his empathy and affection for the country people of Quebec.

December 5 to March 7. **Wolfe and the Battle for a Continent.** Historical military maps relevant to Wolfe's battle for the continent were featured in this exhibition. Scenes of warships in action, medals and decorations, and some of the weapons of war were shown.

1976

March 10 to June 13. **Life in Rural Ontario in the 19th Century.** An exhibition featuring watercolour drawings and oil paintings mainly by immigrant artists.

June 17 to September 21. **A Hundred Years of American Prints — 1760 to 1860.** This exhibition included the Wall & Hill Hudson River Portfolio, Milbert's *Itineraire Pittoresque*, large city views, and some Currier and Ives' views on the frontier.

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## Miscellaneous Exhibitions

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1975

August 15 to September 11. **Women in Astronomy.** This historical exhibit, loaned by the IBM Corporation, cited the achievements of women in astronomy from antiquity to the present day. McLaughlin Planetarium.

1976

March 2 to April 11. **Oracles and Time in Ancient China.** An exhibit of the earliest known writings from China, on bone and shell, telling of the life and times of the Shang priest-kings. Far Eastern Galleries.

March 9 to March 14. **Gardening for the Birds.** This ROM exhibit at the Spring-in-the-Park Flower Show received an Award of Merit. Garden Club Annual Show, Automotive Building, Exhibition Place.

March 19 to March 28. **Living Fossils.** ROM exhibit at the Sportsmen's Show, Coliseum, Exhibition Place.

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## Concerts

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1975

December 15 to December 19. **The Choir of St. George's College.** A selection of choral and seasonal music performed each noon hour in the Main Rotunda.

1976

**Music in March: New Modes in Music during the 16th and 17th Centuries.** A concert series, introduced by Richard Kolb. Held in the Bishop White Gallery at 5:30 p.m.

March 10. **The Toronto Consort.** Secular chamber music of the 16th and early 17th centuries from Italy, France, and England.

March 17. **The York Viols.** This quintet gave a concert of late 16th- and early 17th-century music from England and Germany for various combinations of viols.

March 24. **Richard Kolb, Lutanist.** A recital of solos from the early 17th-century French and English repertoires.

March 31. **The Kitchener Bach Choir.** A concert of sacred and secular music from Italy, France, England, and Germany.

April 7. **Peggy Sampson, gamba; Harvey Fink, harpsichord; John Higgins, voice.** The programme included Elizabethan and French solos on the gamba and harpsichord, a sonata for gamba and harpsichord by J.S. Bach, and Monteverdi arias.

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## Lecture Series

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1975

**Lectures and films related to the "Animals in Art" exhibition.** Free one-hour programmes held in the ROM Theatre:

October 7. **Galapagos — Wild Eden.** Dr. Roger Tory Peterson, distinguished and popular bird artist, author and editor of the Field Guide series.

October 14. **Audubon.** A documentary tracing the travels throughout Europe and North America of John J. Audubon (1785-1851).

October 21. **Great Artists as Observers of Animals.** Professor T.A. Heinrich, Fine Arts Department, York University.

October 28. **African Elephant.** Cleveland Grant, Mineral Point, Wisconsin, narrated his film which told the story of a five-month one-man safari in Africa.

November 4. **The Gallery of the Horned God.** Demorest Davenport, Professor of Zoology, University of California, lectured on animals in mythology and art.

November 11. **Bighorn / Polar Bear / The Winged World: Instincts and Intelligence in Birds.**

November 18. **A Naturalist Looks at "Animals in Art".** Terry Shortt, Chief Artist of ROM's Art Department discussed the exhibition which he helped to organize.

November 25. **Snow Monkeys: Extinct is Forever / Wild Africa: The Energy Cycle / Animal Landlord.**

December 2. **Four Centuries of Animals in Books.** David Lank, Montreal writer and rare-book historian.

December 9. **Frogs, Snakes, and Turtles.** Barry Penhale, Toronto journalist and broadcaster discussed his film.

1976

**Science Lecture Series — New Looks at Old Bones.** Recent advances in the science of palaeontology. ROM Theatre, Tuesdays at 8:30 p.m.



# Calendar of Events

January 13. **The Loch Ness Phenomenon.** Dr. Chris McGowan, Associate Curator, Vertebrate Palaeontology.

January 20. **Big Game Animals in Prehistoric Western Canada.** Dr. C.S. (Rufus) Churcher, Research Associate, Vertebrate Palaeontology.

January 27. **Hair, Claws and Scales — the Giant Ground Sloths and Giant Armadillos.** Dr. A. Gordon Edmund, Curator, Vertebrate Palaeontology.

February 3. **Adventures in Reconstructing Past Environments: The Life and Times of Pleistocene Vertebrates.** Dr. John H. McAndrews, Curator, Department of Mineralogy and Geology.

February 10. **New Views on the Origin and Evolution of Reptiles.** Dr. Robert Reisz, Research Associate, Vertebrate Palaeontology.

**Gold Lecture Series.** An introduction to the “Gold for the Gods” exhibition.

March 4. **Gold.** Dr. Joseph Mandarino, Curator-in-charge, Department of Mineralogy and Geology.

March 18. **The Midas Touch: Alchemy.** Dr. Henry King, Curator, McLaughlin Planetarium.

April 1. **“A Golden Race of Mortal Men”.** Professor Walter Graham, Research Associate, Greek and Roman Department.

April 15. **The Gold of the Pharaohs.** Dr. Nicholas Millet, Curator, Egyptian Department.

April 29. **“More Precious than Gold”: the Silk Routes.** John Vollmer, Assistant Curator-in-charge, Textiles Department.

May 13. **Pots of Gold in China.** Mrs. Patricia Proctor, Curatorial Assistant, Far Eastern Department.

May 27. **Gold in the ROM’s Lee Collection.** Corey Keeble, Assistant Curator, European Department.

June 3. **Gold for the Gods.** Dr. Kent Day, Assistant Curator, Office of the Chief Archaeologist and Field Director at ROM’s archaeological site at Pampa Grande, Peru.

## Miscellaneous Lectures

1975

August 7. **Flemish Tapestries, Glory of Belgium.** Dr. Sophie Schneebalg-Perelman, Director of the Centre of Brussels Tapestries. Planetarium Lecture Room, 8:30 p.m.

November 13. **Chinese and Japanese Export Furniture.** Jorgen Schou-Christensen, Curator of the Oriental Collections, Museum of Decorative Art, Copenhagen. Planetarium Lecture Room, 8:30 p.m.

1976

March 25. **The Master of the Olympia Sculptures and His Collaborators.** Professor Jose Doerig, University of Geneva, Switzerland. Room 4, 3:30 p.m.

April 7. **An Ancient Synagogue at Kin Gedi, Israel.** Dr. Dan

Barag, Department of Archaeology, The Hebrew University, Jerusalem. Co-sponsored by the Friends of the Hebrew University. ROM Theatre, 8:15 p.m.

June 4. **Fakes and Fallacies in Pottery and Porcelain.** Dr. John Cushion, Keeper of Ceramics, Victoria and Albert Museum, London, England. Planetarium Lecture Room, 8:30 p.m.

## Extension Courses

The following courses were offered jointly by the University of Toronto and the Royal Ontario Museum:

1975-76

October 20 to December 8 and April 5 to May 31. **Introduction to Observing.** Given by Robert Ballantyne and William Peters, Curatorial staff of the McLaughlin Planetarium. Planetarium, Mondays at 8:00 p.m.

October 22 to December 10 and February 9 to March 29. **Introducing Astronomy.** Given by Norman Green, Assistant Curator. Planetarium, Wednesdays at 8:00 p.m.

October 7, 1975 to January 27, 1976. **Exploration of the Universe.** Given by Dr. Henry C. King, Curator, McLaughlin Planetarium. Tuesdays at 8:00 p.m.

February 4 to April 7, 1976. **Ceramics for the Collector.** Given by members of the Conservation Department. Conservation Laboratory, Wednesdays at 7:30 p.m.

## Subscription Lecture Series

1975-76

**Bishop White Lecture Series.** A series of six evening lectures, “Methods of Research for Collectors”, given by Dr. Hsio-yen Shih, Curator, Far Eastern Department. Proceeds went to the Far Eastern Endowment Fund. Far Eastern Library, October 14, 21, 28, and November 4, 11, and 18 at 7:00 p.m.

**China Observed.** Three illustrated lectures by members of the Bishop White Committee after a visit to China. Proceeds went to the Far Eastern Endowment Fund. Planetarium Lecture Room, November 25 and December 2 and 9 at 5:00 p.m., and April 20 and 27 and May 4 at 11:30 a.m.

**Textile Department Endowment Fund.** Lectures related to the special exhibition “Curator’s Career” to aid the Textile Department Endowment Fund were given by members of the Textile Department staff:

November 5. **Curator’s Choice.** Katherine B. Brett, Curator Emeritus of the Textile Department. Room 4.

November 12. **Of Needle and Thread** (embroidery). Dr. Veronica Gervers, Associate Curator. Textile Gallery.

November 19. **The Art of the Dressmaker** (costume). Mrs. Mary Holford, Assistant Curator. Textile Gallery.

November 26. **Silks, Spices and Such** (trade fabrics). John Vollmer, Assistant Curator-in-charge. Textile Gallery.

December 3. **Fabrics in Canada’s History** (weaving and furnishings). Mrs. Dorothy K. Burnham, Curator. Textile Gallery.



Archaeological Institute of America

A series of lectures sponsored by the Toronto Society of the Institute was held in the Planetarium Lecture Room at 4:30 p.m.

1975

- October 22. **Between the Indus and Euphrates Rivers.** C.C. Lamberg-Karlovsky, Peabody Museum, Harvard University.
- November 12. **Just Before the Conquest: The Ancient Maya of Lamanai, Belize.** Dr. David M. Pendergast, Associate Curator, Office of the Chief Archaeologist, ROM.

1976

- January 7. **Underwater Archaeology in the Mediterranean.** Joseph W. Shaw, Department of Fine Arts, University of Toronto.
- February 11. **In a Greek Vase Painter's Workshop.** Dr. Michael Eisman, Professor of History at Temple University.
- March 24. **Etruscan Life in Ancient Northern Italy.** Professor Larissa Bonfante Warren of the Department of Classics at New York University.
- April 7. **Glacial Lakes and Ice Age Man in Ontario.** Dr. Peter L. Storck, Associate Curator, Office of the Chief Archaeologist, ROM.

Lectures Sponsored by the Society for the Study of Egyptian Antiquities

Held in the Planetarium Lecture Room at 8:30 p.m.

1975

- October 16. **The Egyptian Conception of Time.** Professor Klaus Baer, The Oriental Institute, University of Chicago.
- December 4. **Pride and Prejudice: International Relations in the Amarna Period.** Professor William L. Moran, Department of Near Eastern Languages and Civilization, Harvard University.

1976

- January 29. **Ancient Egyptian Poetry.** Dr. John L. Foster, Roosevelt University, Chicago.

Films

1975-76

- July 2 to 30, 1975. **Times 5.** A retrospective series of five feature films from the National Film Board. ROM Theatre, Wednesdays at 7:30 p.m.
- August 6 to 27, 1975. **China Past and Present.** An overview of Chinese civilization presented in a four-part series of screenings. ROM Theatre, Wednesdays at 7:30 p.m.

July 8 to August 26, 1975. **ROM Showcase.** Senior Citizens were especially invited to a series of eight programmes of selected films from the collection of the ROM's Film Library and Archives. ROM Theatre, Tuesdays at 12:30 and 2:00 p.m.

January 14 to February 25, 1976. **Images of Canada.** Seven hour-long CBC colour documentaries in a continuing exploration of our country's history from the 17th to the 20th centuries. Introduced by Vincent Tovell of the CBC. Wednesdays.

October 5, 1975 to April 25, 1976. **Sunday Evening Films — "Lifestyles".** Outstanding features, documentaries, and shorts exploring individual and collective lifestyles. Foreign language films appeared with English subtitles. ROM Theatre, 7:30 p.m.

October 5, 1975 to April 25, 1976. **Sunday Family Films.** A film programme designed for the enjoyment of the entire family. ROM Theatre, 2:30 p.m.

June 20 to 25, 1976. **The ROM Salutes: Ontario Senior Citizens' Week 1976.** A series of free films was presented to follow the 2:00 p.m. tours by the Members' Committee.

ROM World Civilization Tours

1975

August 7 to August 24. **ROM Viking Adventure.** A fascinating 18-day trip to Iceland, Norway, and Denmark led by Dr. Walter Tovell.

1976

- February 4 to February 20. **The Maya.** An introduction to Maya civilization, both ancient and modern, in Belize, Guatemala, and the Yucatan Peninsula of Mexico.
- May 7 to May 23. **Japan: to Sample and Savour.** A visit to Kyoto, Tokyo, and other more out-of-the-way places, with a long weekend in Hong Kong as an option.

Special Events

1975

- July 21. The Astronomy for Campers group, supported by an Opportunities for Youth grant, presented a day-long programme at the McLaughlin Planetarium involving slide talks, telescopes, and related displays along with free Star Theatre shows.
- September 15. Members attended the 8:30 p.m. opening of the new Central European Gallery by Dr. James E. Cruise, ROM Director.
- October 2. On behalf of the Museum Members' Committee, Dr. Cruise presented to the ROM Library a copy of *Les Oiseaux de Chez Nous* by Leo Paul Robert inscribed to commemorate the work of Peter Buerschaper and Terry Shortt in organizing the "Animals in Art" exhibition.
- October 6. A press lunch was held in connection with the "Animals in Art" exhibition. Artists and lenders were invited to a private viewing prior to the members' opening attended



# Calendar of Events

by 2,600 people. Dr. Roger Tory Peterson officiated.

October 18. The Ontario Archaeological Society held a one-day symposium in the Planetarium Lecture Room.

October 20. Nineteen hundred teachers attended Teachers' Night, organized by the ROM Education Department, which included gallery tours, behind-the-scenes activities, and a viewing of the "Animals in Art" exhibition.

October 29. The Members' Committee organized a bus trip for members to the new zoo, preceded by a tour of the "Animals in Art" exhibition.

November 10. Two hundred and fifty life members attended the opening, by Mrs. Louise Stone, of the exhibition "Curator's Career" in the Textile Galleries. The exhibition honoured the retiring Curator Katherine Brett.

November 21-22. The Department of Invertebrate Palaeontology hosted a Palaeontology and Biostratigraphy seminar in the Planetarium Lecture Room.

November 27. **Persian Perspectives.** In keeping with the ROM's continuing cultural interest in Iran, a varied programme including films was planned to bring into focus some of the outstanding aspects of Iran's history: "Architecture and City-Planning in 17th-Century Iran" — lecture by Dr. Lisa Golombek of ROM's West Asian Department. "Persian Palace Paintings of the Qajar Period" — lecture by Patricia, Countess Jellicoe of London, England.

December 3. Members of the Toronto Branch of the Archaeological Institute of America met in Room 4 for their annual meeting and a behind-the-scenes tour.

December 6. A dinner for 94 members of the Ontario Archaeological Society was held in the Dinosaur Den, followed by a preview of the new archaeology gallery.

December 8. A special viewing of the "Animals in Art" exhibition was held for 225 representatives of the Midwest Fish and Wildlife Conference.

December 11. The National Museums Corporation demonstrated data equipment in Room 4.

December 15. A Christmas party was held for ROM staff in the Dinosaur Den.

December 16. Mr. and Mrs. Arnold Edinborough read poetry of the season at a ceremony around the Christmas tree in the Armour Court.

December 22. A small tea party was held in the third-floor Rotunda to mark the opening of the exhibition "Photomicrographs of Minerals".

December 22. Seven hundred staff members from the agencies of the Ministry of Culture and Recreation gathered from 5:30 to 7:30 p.m. for a staff tour of the Museum and some orientation, following the Ministry's integration.

1976

January 26-30. The Ontario Museum Association held a seminar in the Planetarium Lecture Room.

January 27. Over 300 people attended an Open House at the Sigmund Samuel Canadiana Gallery, one of the programmes to mark the 25th anniversary of the gallery.

January 29. A tour and coffee party were organized by the Members' Committee for new members.

February 2. Dr. William E. Taylor, Jr., Director of the National Museum of Man, opened the exhibition "Tokens of Possession" commemorating the 400th anniversary of Martin Frobisher's first northern voyage.

March 4. A reception was held in Room 4 for visiting archaeologist Dame Kathleen Kenyon to meet with 70 members of the ROM staff.

March 18. The Members' Committee organized a major Open House from 6:30 to 10:30 p.m. Four thousand people took the opportunity to meet curators and visit behind the scenes. Also featured was the Wintario Draw televised live from the Armour Court at 9:00 p.m.

March 23. A second Canadiana Department Open House from 7:00 to 9:00 p.m. was attended by 275 people.

April 24. The second annual get-together for Museology students and alumni was held in Room 4 from 2:00 to 5:00 p.m.

April 26. A press lunch preceded the 9:00 p.m. members' opening of the exhibition "The Arts of Aboriginal Australia" by His Excellency Mr. Harold Maxwell Loveday, High Commissioner for Australia.

April 26-30. The Toronto Area Archivists Group held sessions in the Planetarium Lecture Room.

May 3. All staff were invited to the opening of the exhibition of creative work by members of the ROM staff, "Inside Out", at 5:30 p.m. in the third-floor Rotunda.

May 15-16. Dr. W.M. Tovell led a Geology bus trip to Georgian Bay organized by the Members' Committee.

May 17. Dr. Helen Hogg's book *The Stars Belong to Everyone* was launched at a press reception hosted by Doubleday in the Planetarium at 5:30 p.m.

May 18. The Members' Committee held their annual meeting at the Canadiana Gallery.

May 19. The Textile Department held an At Home in their galleries for members of the Oriental Rug Society of Toronto.

May 20. Eighty recent new members attended a reception organized by the Members' Committee featuring tours and coffee at 7:00 p.m.

June 7. The IDEAS Society presented a programme entitled "Cosmogrammatics" in the Star Theatre at 7:00 and 9:00 p.m.

June 8. Members of staff gathered at 4:00 p.m. in the garden to honour three retiring staff members, Sylvia Hahn, John Monteith, and Terry Shortt.

June 8-10. The Bishop White Committee sponsored a trip to the St. Louis Art Museum and the William Rockhill Nelson Gallery of Art, Kansas City.

June 19. The Members' Committee organized an afternoon of tours, with birthday cake and lemonade, to mark the 25th anniversary celebrations at the Canadiana Gallery.

June 21-25. Senior Citizens Week was marked by extra tours and a special weekday film programme. Members of the ROM Senior Citizens' Club, FOROM, were on hand in Room 4 to provide conversation and lemonade for visitors.



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Mr. H.D. Pepper, Coordinator  
Miss S. Hahn, Artist-Craftsman P/T  
Mr. J. Mulock, Artist-Craftsman

#### Carpenter Shop

Mr. A. Russell, Head Carpenter  
Mr. A. Campbell, Assistant Head  
Mr. W.H. Cook, Carpenter  
Mr. M. Holder, Carpenter  
Mr. D. MacLeod, Carpenter  
Mr. E. McLerie, Carpenter  
Mr. R. Millar, Carpenter  
Mr. J. McKellar, Carpenter  
Mr. J. Zawadzki, Carpenter

#### Design and Display

Mr. J.R. Anthony, Chief Designer  
Mr. G.S. McIntosh, Assistant to Chief  
Mr. T.W. Moore, Draftsman  
Mr. D.F. Lloyd, Designer  
Mr. W. Kennedy, Designer  
Mr. F. Peynado, Painter  
Miss M.-E. Matthews, Department Sec'y

#### Education and Extension Services

Dr. W.M. Tovell, Head  
Miss S.H. Salo, Secretary

#### Education Services

Miss N.E. Heakes, Chairman Emeritus  
Mr. R.E. Moynes, Chairman  
Miss A.M. Chrysler, Teacher  
Miss N. Gahm, Teacher  
Mrs. P. Isetta, Teacher  
Mrs. M. Jenkins, Teacher  
Mr. R. Miles, Teacher  
Mr. J. Zibergs, Teacher  
Mrs. L. Gad, Supervisor Saturday Morning Club  
Mrs. G. Frampton, Department Sec'y  
Mrs. E.A. Routh, Sec'y, School Visits  
Mrs. C.A. Barton, Assistant Secretary  
Miss A. Neale, Clerk-Typist

#### Extension Services

Mr. D. Young, Chairman  
Miss E. Clark, Extension Officer

Mr. H. Vanstone, Extension Officer  
Mr. R. Watters, Media Specialist  
Miss F. Brittain, Designer  
Mr. J. Hillen, Designer  
Mr. C. Reid, Carpenter  
Mr. J. Bailey, Museumobile Driver  
Mr. J. Johnston, Museumobile Driver  
Mr. R. Kirkman, Museumobile Driver  
Mrs. J. Soden, Department Secretary  
Miss L. Morris, Secretary

#### Exhibitions and Programmes

Mrs. H.R. Downie, Programme Secretary  
Miss K. McLay, Assistant Programme Secretary  
Mrs. J.R. Dack, Department Secretary  
Miss L. Bryant, Membership Clerk

#### Information Services

Mr. D.K. Brown, Public Relations Manager  
Miss J. Court, Information Assistant  
Mr. J. Campsie, Supervisor of Publications  
Ms. M. Wentz, Associate Publications Editor  
Mrs. V. Morin, Graphic Designer  
Mrs. D. Rawek, Graphic Designer P/T  
Miss I. Hambleton, Department Sec'y  
Miss C. Geddes, Clerk-Typist P/T

#### Museology

Mr. W.H. Bayley, Chairman  
Mrs. E. Cruise, Department Secretary

#### Photography

Mr. L.R. Warren, Head Photographer  
Mr. W. Robertson, Assistant Head  
Mr. B. Boyle, Photographer  
Mr. A. McColl, Chief Technician  
Mrs. C. MacDonald, Department Sec'y

### STREAM 4 — ADMINISTRATION AND FACILITIES

#### Book and Gift Shop

Mrs. P. Dowton, Manager / Buyer  
Ms. M. Caldwell, Secretary  
Miss L. Alanthwaite, Main Store  
Miss M. FitzGerald, Main Store  
Miss J. Leitner, Main Store  
Mrs. J. Hudson, Mini Shop  
Mr. W.S. Jong, Stockroom Clerk

#### Finance and Accounts

Mr. A.D. Harris, Assistant Controller, Finance and Accounts  
Mr. J. McCombe, Chief Accountant  
Mr. K. Murty, Accountant  
Mrs. I. MacDonald, Accounts Payable Supervisor  
Miss J. Ketelaar, Payroll  
Mrs. E. Kun, Cashier  
Mrs. S. Tuli, Department Secretary

#### Personnel Services

Miss L.M. Roe, Personnel Officer  
Miss P. Brundrit, Personnel Assistant  
Miss N. Reid, Clerk-Typist

#### Support Services

Mr. J.H. Harvey, Assistant Controller, Operations  
Mr. A. Lawrence, Building Superintendent  
Miss M. May, Secretary  
Mr. J. Smith, Purchasing Officer  
Mr. E. Bright, Bartender / Steward  
Mr. D. Grace, Mail Clerk  
Mr. C. Palmer, Mail Clerk  
Mr. E. Neblett, Maintenance Supervisor  
Mrs. B. Statham, Reception Desk  
Miss L. Stefanovski, Turnstile Cashier

#### Security Officers:

Mr. G. Anderson	Mr. D. Lawson
Mr. H.H. Baldwin	Mr. R. Maend
Mr. N. Bassett	Mr. P. Maguire
Mr. R. Bishop	Mr. J. Mendes
Mr. W. Boroskie	Mr. I. Munroe
Mr. R. Buchan	Mr. V. Murphy
Mr. F. Burritt	Mr. D. Nasato
Mr. R.B. Cameron	Mr. W. Nethery
Mr. S. Carenza	Mr. P. Page
Mr. A. Chute	Mr. L. Peters
Mr. T. Cioffi	Mr. W.J. Power
Mr. S. Cortes	Miss J. Rittersporn
Mr. W. Cowan	Mr. M. Russell
Mr. N. Cummings	Mr. D. Schmitz
Mr. S. Dawson	Mr. A.P. Selman
Mr. B. Dickie	Mr. W. Shipman
Mr. R. Dopta	Mr. F. Smyth
Mr. W. Grundy	Mr. C. Stephen
Mr. H.E. James	Mr. J. Tran
Mr. J. Jessup	Mr. P. Urbanski
Mr. C. John	Mr. R. VanZant
Mr. B. Kazmierowski	Mr. J. Weissbart
Mr. P. Kleon	Mr. R. Williams

#### Service Employees:

Mr. R. Diniz  
Mr. P. Dowhan  
Mr. J. Droulias  
Mr. A. Fava  
Mr. A. Galati  
Mr. F. Galati  
Mrs. M.J. Matos  
Mr. J. Melo  
Mr. B. Solomine  
Mr. S. Stefanovski  
Mrs. G. Wong

#### Maintenance Workers:

Mr. H. Booton  
Mr. A. Felipe  
Mr. T. Kukkonen  
Mr. D. Weston



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ROYAL ONTARIO MUSEUM



